STANDARDS DEVELOPMENT BRANCH O.M.E.
3693600000005345

# MORPHOMETRIC, CHEMICAL, PHYSICAL AND GEOLOGICAL DATA FOR AXE, BRANDY, CINDER, FAWN, HEALEY, LEECH LEONARD, McKAY, MOOT, POKER, RED PINE LAKES IN THE MUSKOKA -HALIBURTON AREA (1978-1985)

R.A.REID AND R.GIRARD

DATA REPORT DR 87/2 (Appendix)

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Ministry of the Environment

J. Bishop, Director
Water Resources Branch

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# Morphometric, chemical and physical data for Axe, Brandy, Cinder, Fawn, McKay, Healey, Leech, Leonard, Moot, Poker, and Red Pine Lakes in the Muskoka-Haliburton area (1978-1985)

R.A. Reid and R. Girard

Data Report DR 87/2 (Appendix)

# PREFACE

The Data Report Series is intended as a readily available source of basic data collected for lakes and watersheds in the Muskoka/-Haliburton area of Ontario. These data were collected as part of the Lakeshore Capacity Study and/or the Acid Precipitation in Ontario Study.

The limnological portion of the Lakeshore Capacity Study (1975-81) was initiated to investigate the relationships between lakeshore development and lake trophic status in low ionic strength Precambrian lakes. The Acid Precipitation in Ontario Study (1979-present) was initiated, in part, to investigate the effects of the deposition of strong acids on aquatic and terrestrial ecosystems in Ontario. The primary findings of these studies have been and will continue to be published as reviewed papers and technical reports.

Reid, R.A. and R. Girard. 1987. Morphometric, chemical and physical data for Axe, Brandy, Cinder, Fawn, Healey, Leech, Leonard, McKay, Moot, Poker and Red Pine Lakes in the Muskoka-Haliburton area (1978-1985). Ont. Min. Envir. Data Report DR 87/2.

## INTRODUCTION

This report summarizes the morphometry and the chemistry, as well as the catchments' surficial geology for Axe, Brandy, Cinder, Fawn, Healey, Leech, Leonard, McKay, Moot, Poker and Red Pine Lakes.

The appendix summarizes the measured temperature, oxygen, pH and dissolved inorganic carbon profiles for each of the lakes.

Appendix - Profiles for temperature, dissolved oxygen, pH and dissolved inorganic carbon


| Lake | Page |
|---|---|
| Axe | 1-18 |
| Brandy | 19-52 |
| Cinder | 53-84 |
| Cinder East | 85-101 |
| Fawn | 102-143 |
| Healey | 144-174 |
| Leech | 175-206 |
| Leonard | 207-241 |
| McKay | 242-276 |
| Moot | 277-305 |
| Poker | 306-333 |
| Poker East | 334-347 |
| Red Pine | 348-362 |

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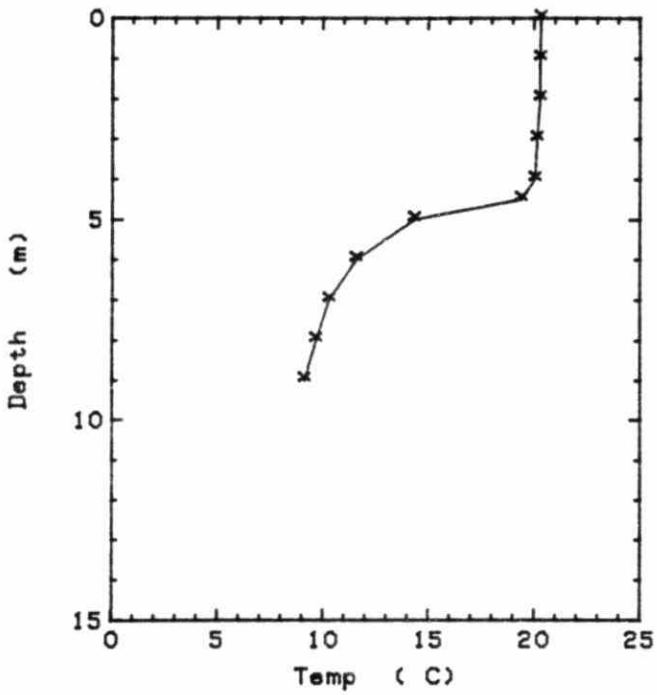
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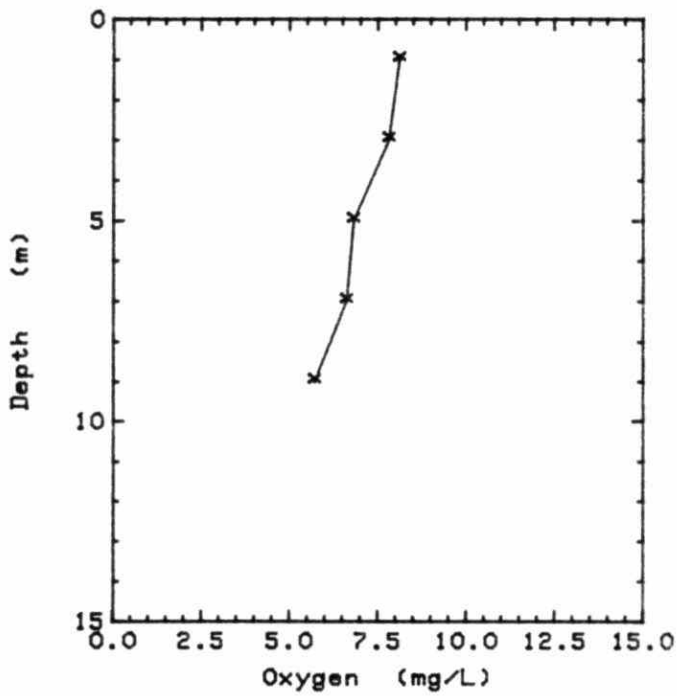
Temp ( C)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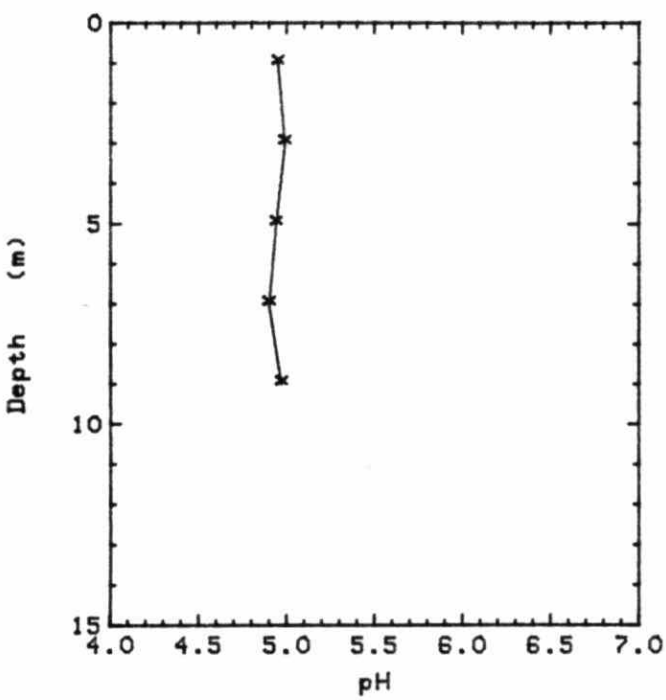
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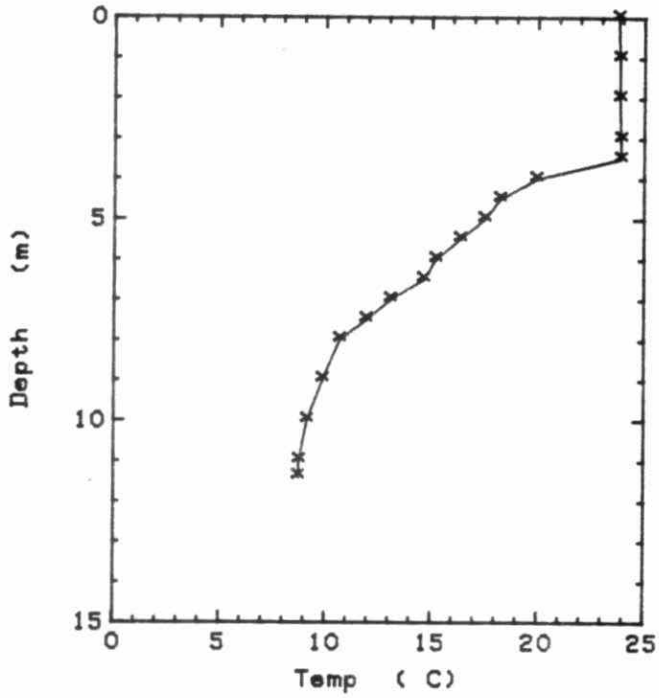
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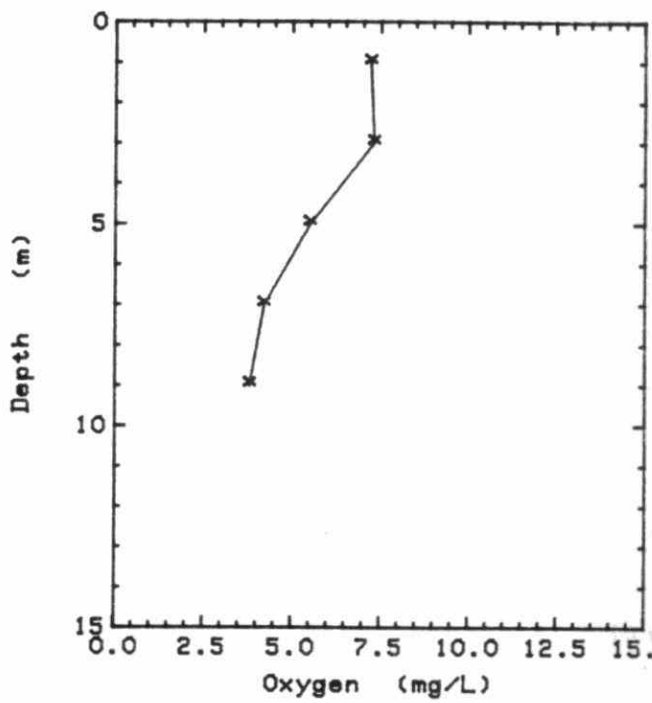
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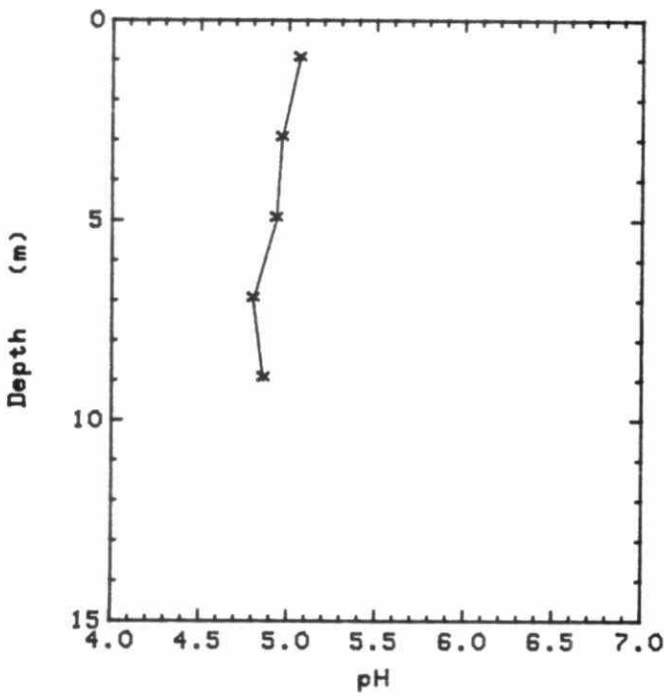
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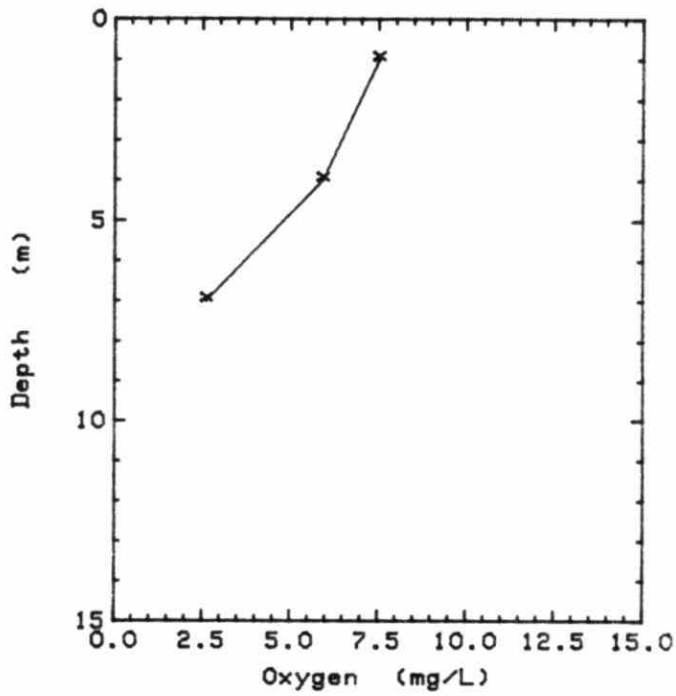
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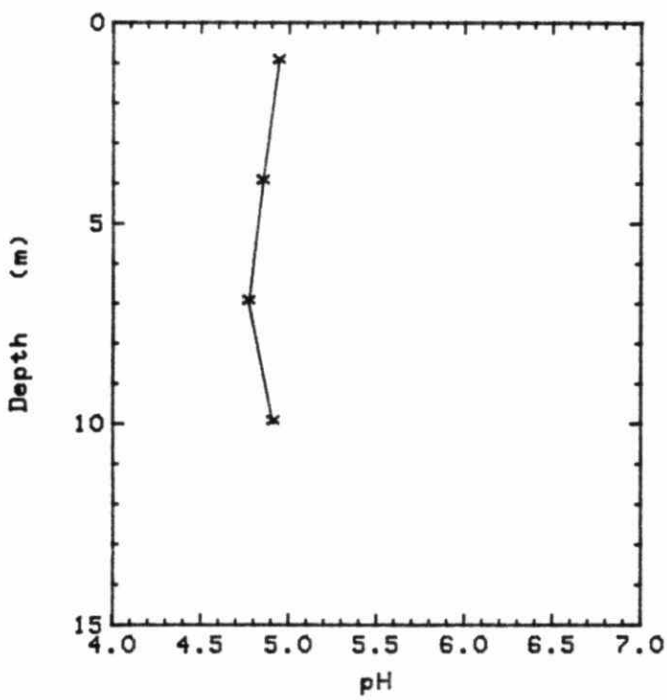
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pH

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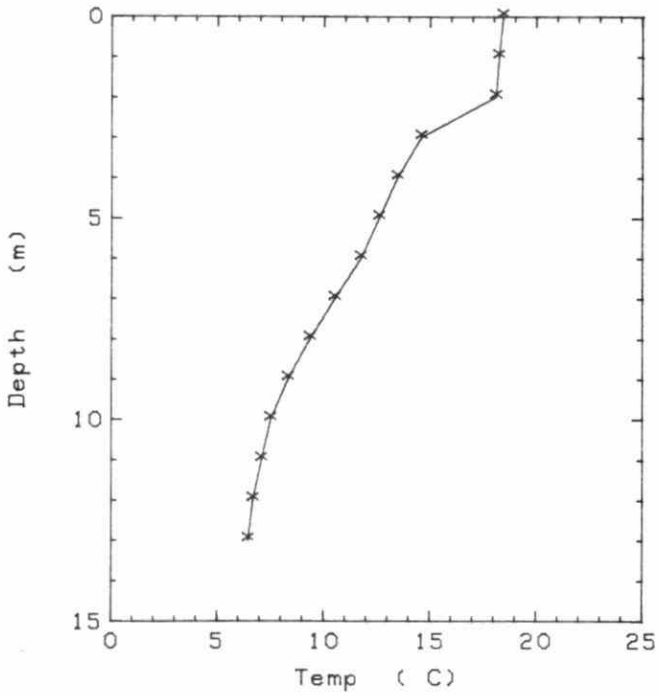
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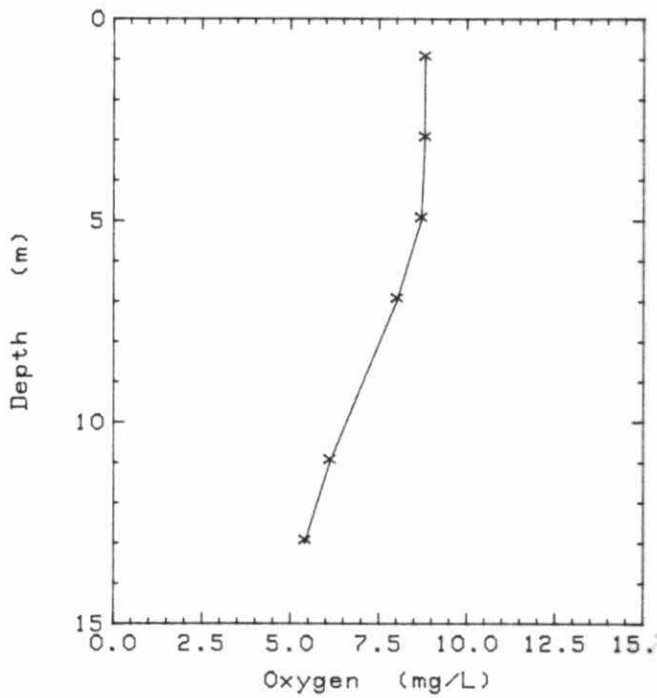
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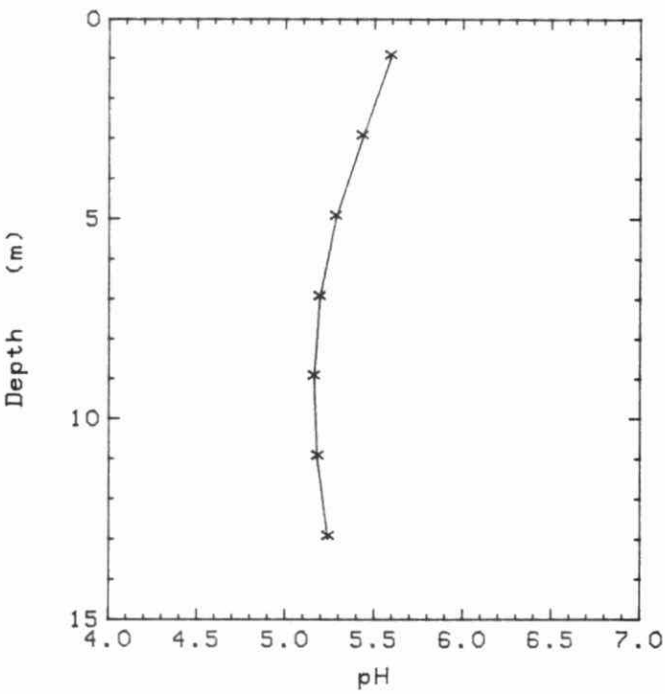
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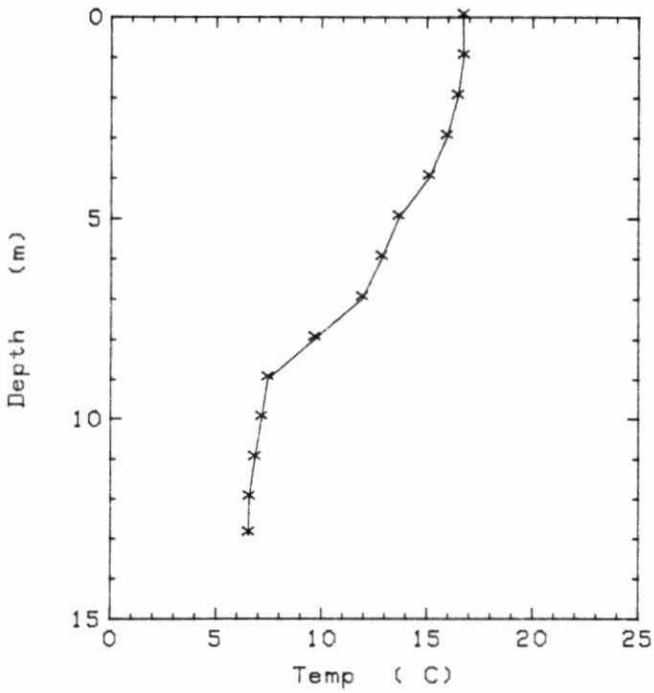
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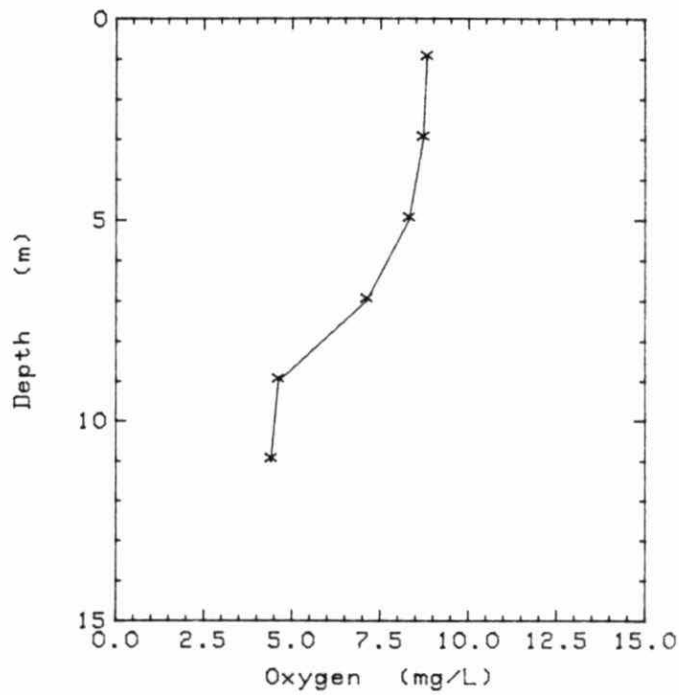
Temp ( C)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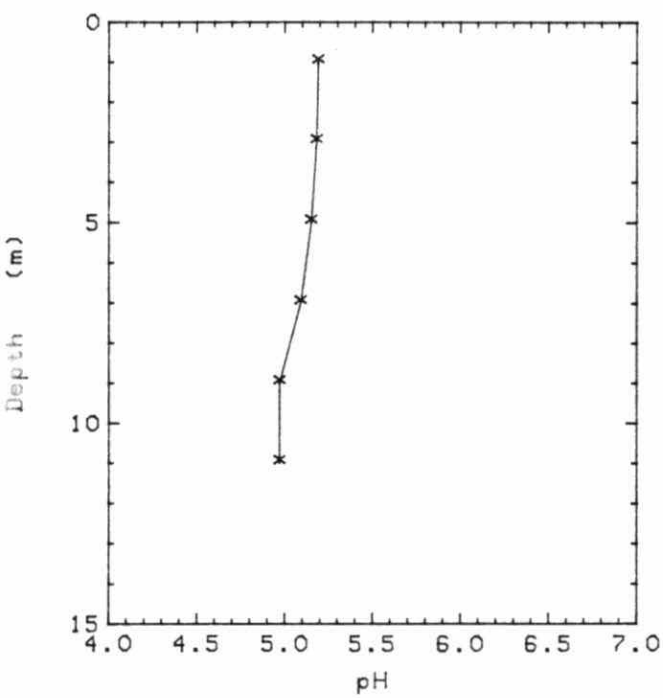
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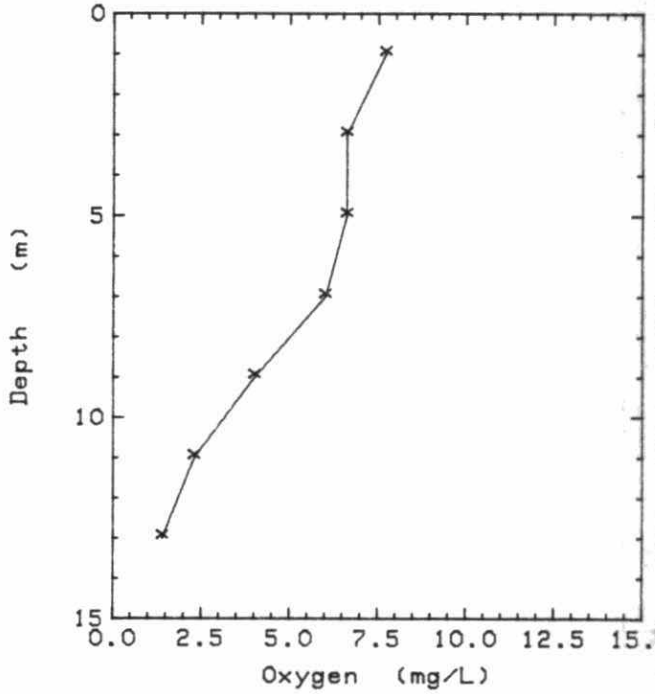
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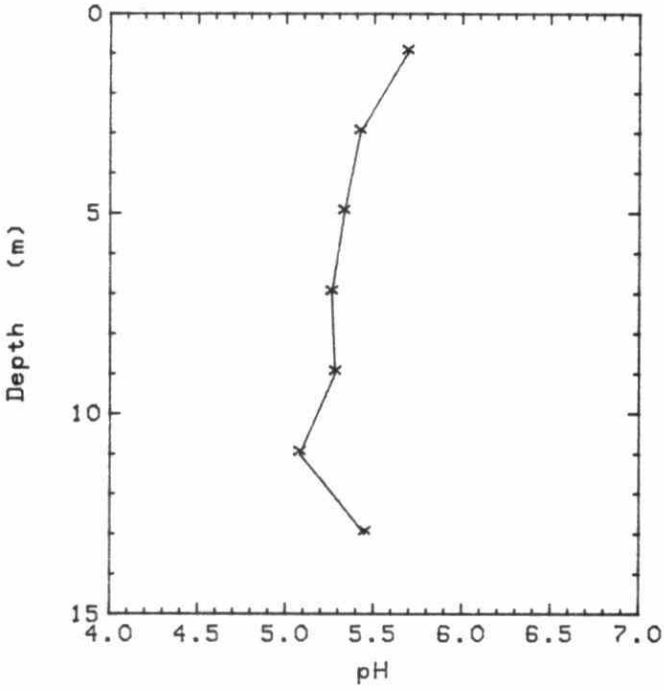
Oxygen (mg/L)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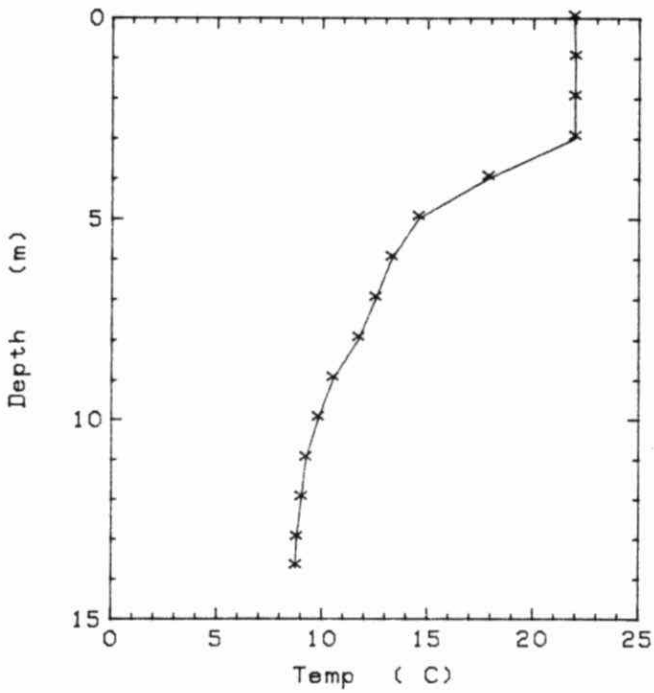
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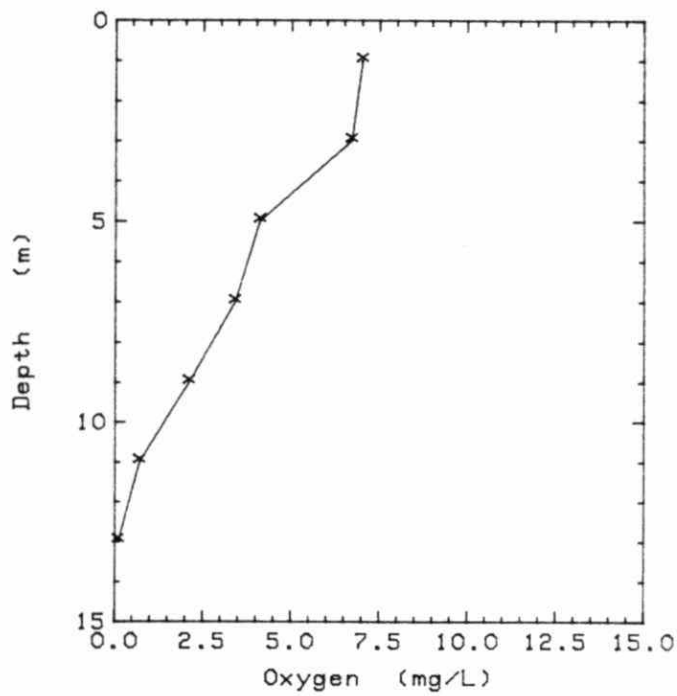
Temp ( C)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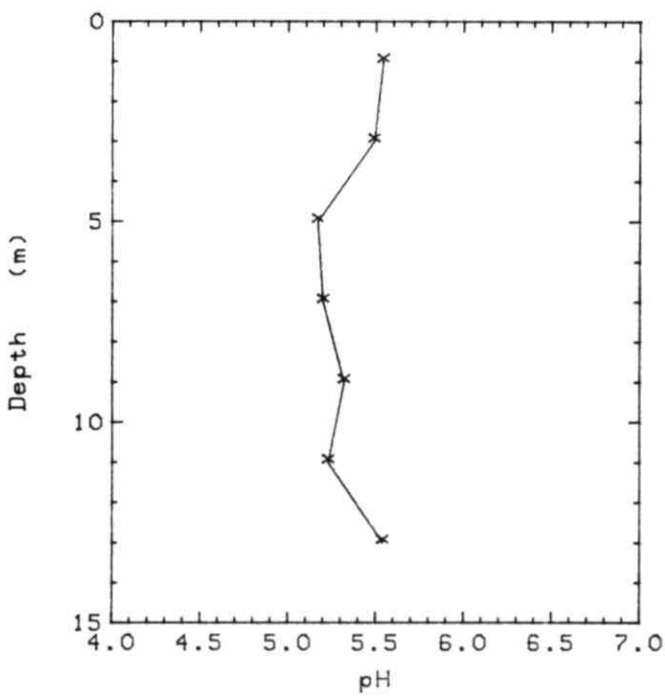
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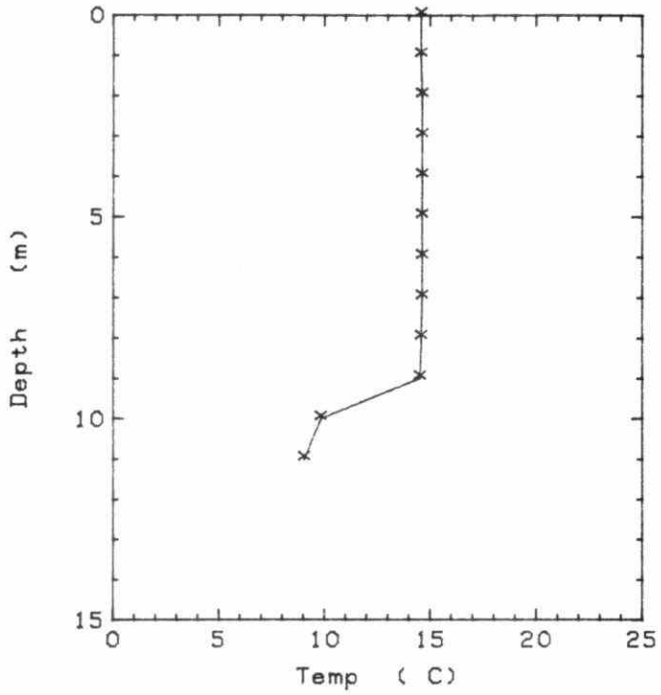
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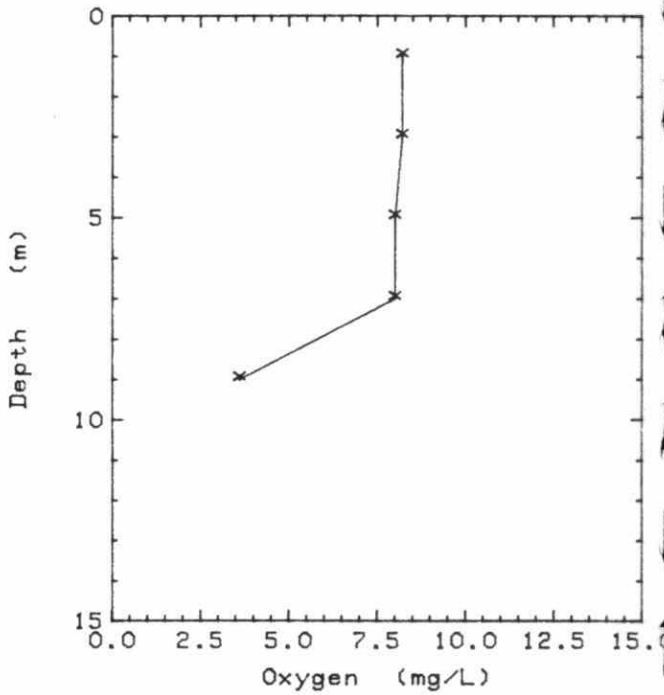
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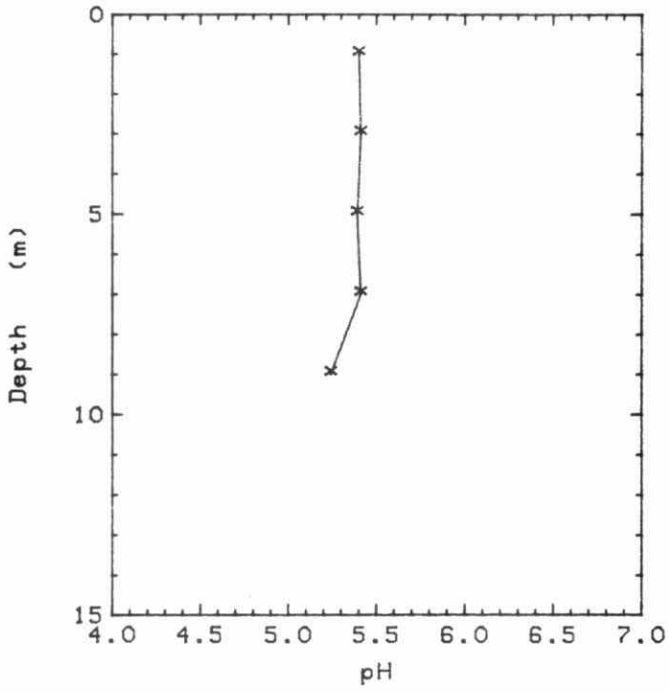
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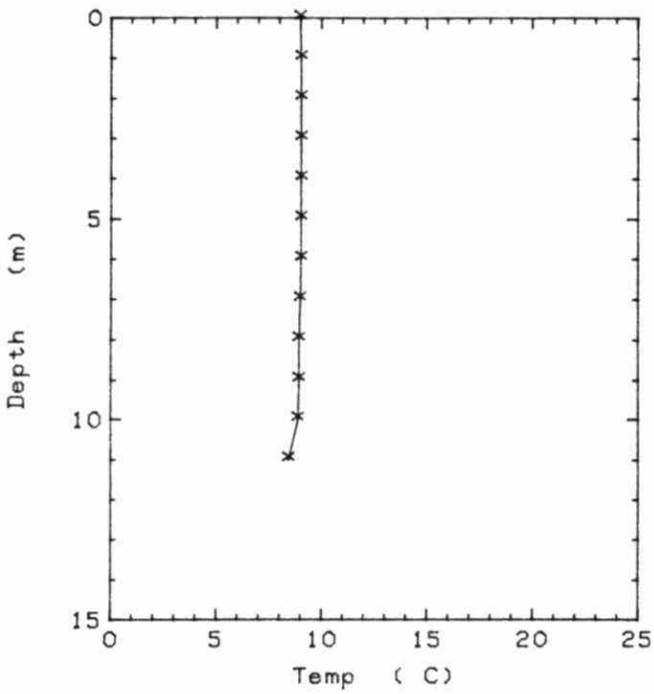
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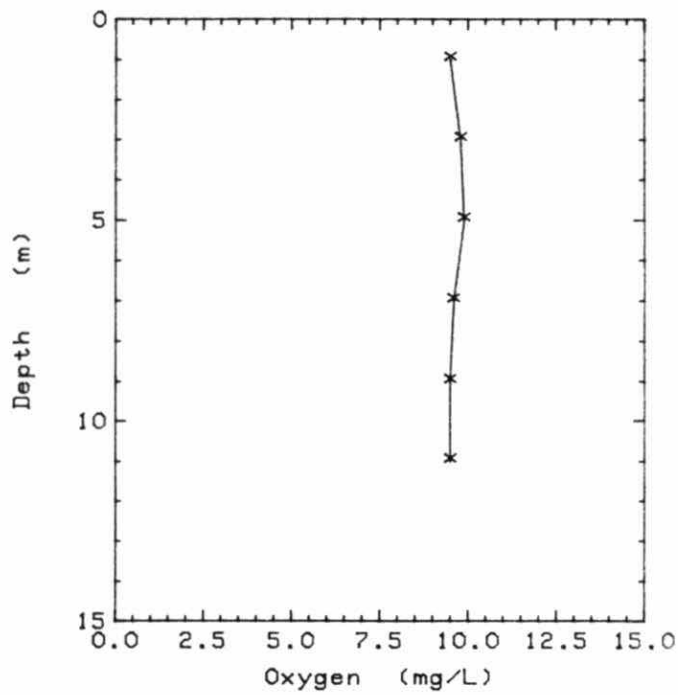
Temp ( C)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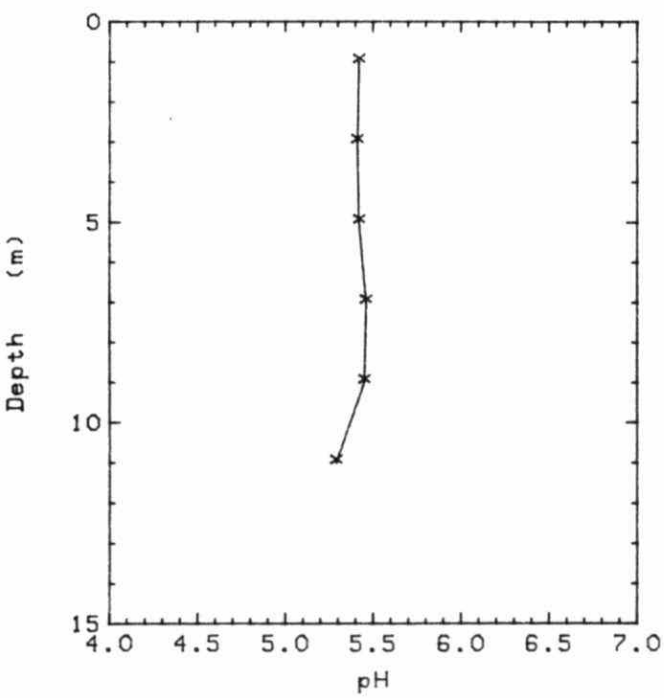
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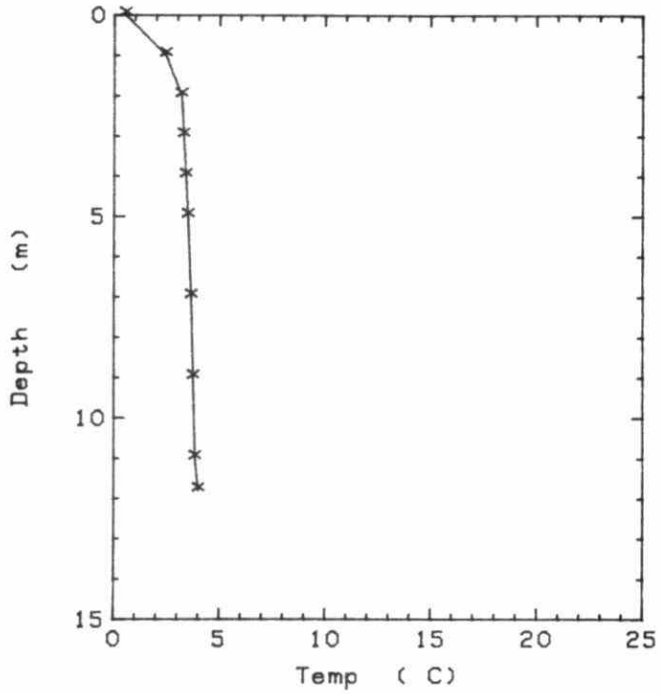
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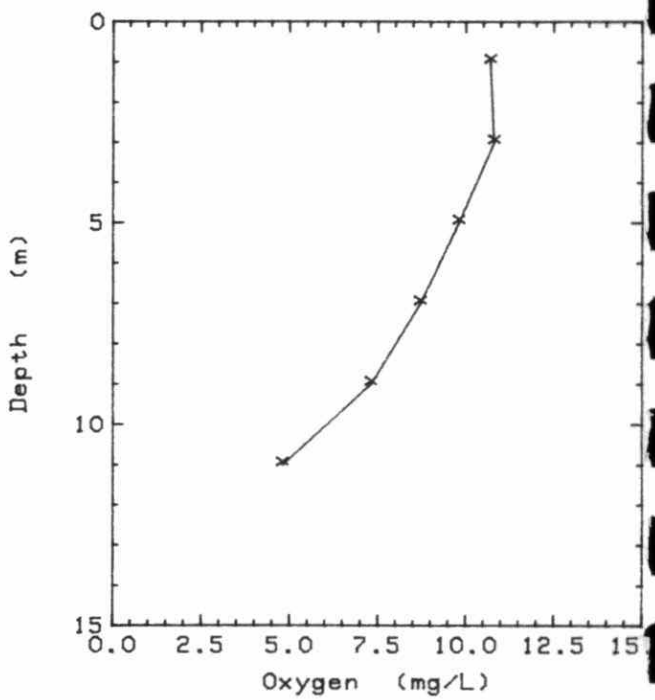
Temp ( C)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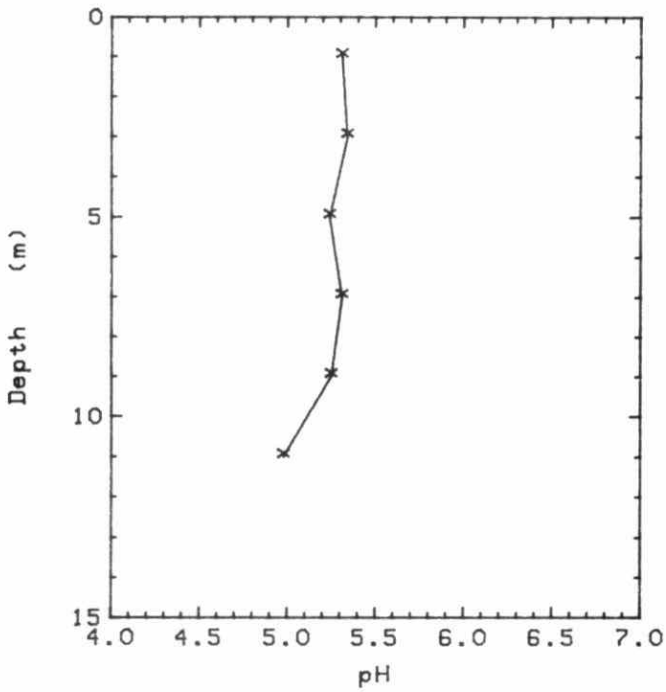
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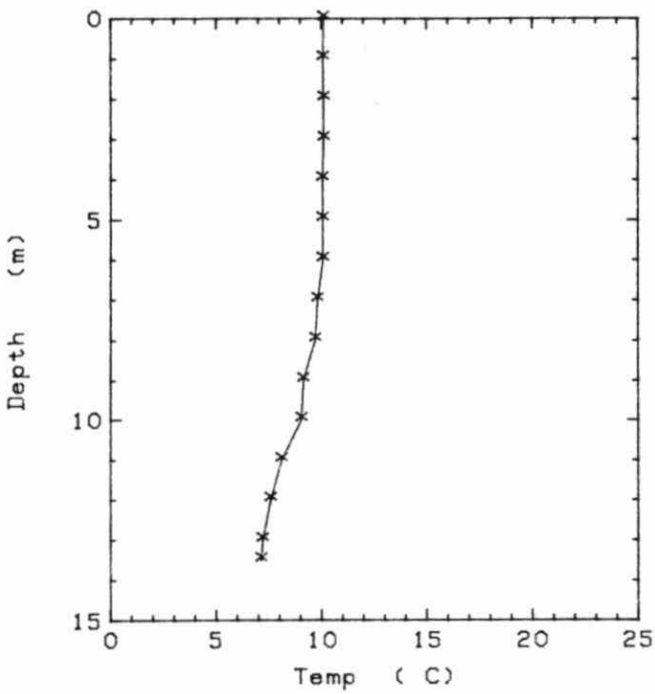
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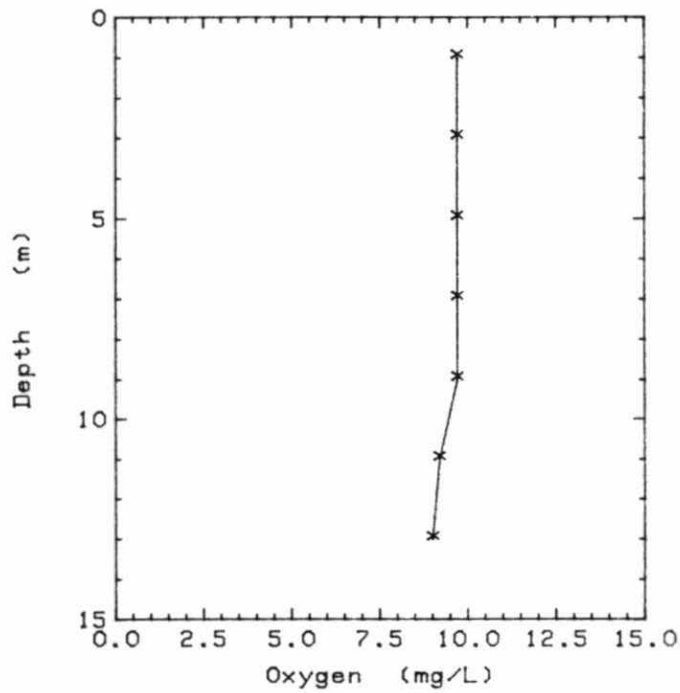
Temp ( C)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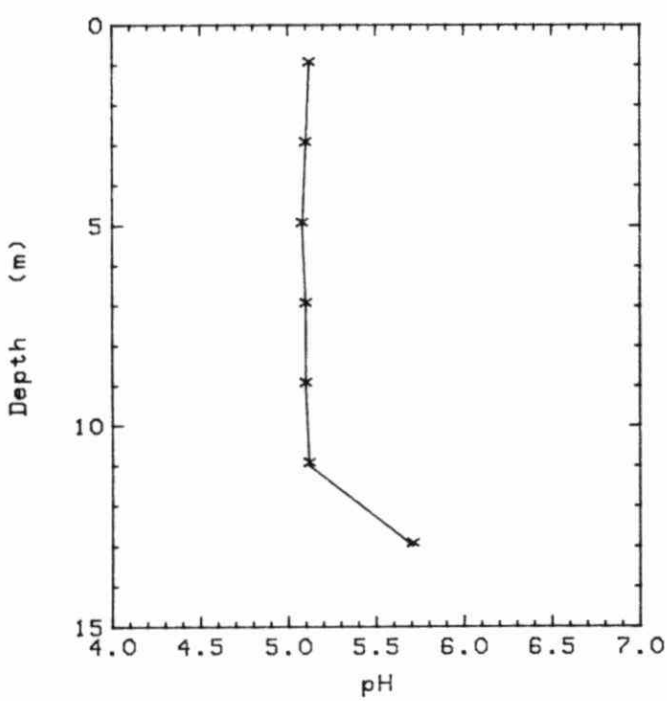
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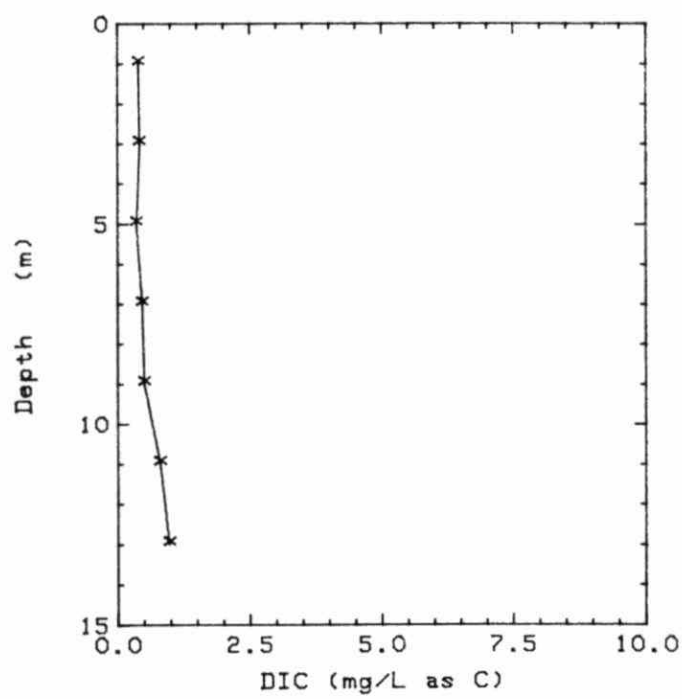
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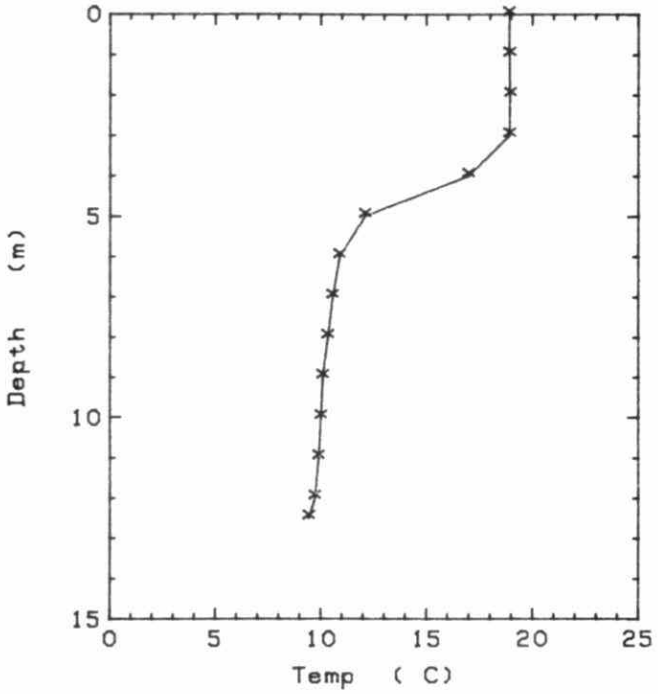
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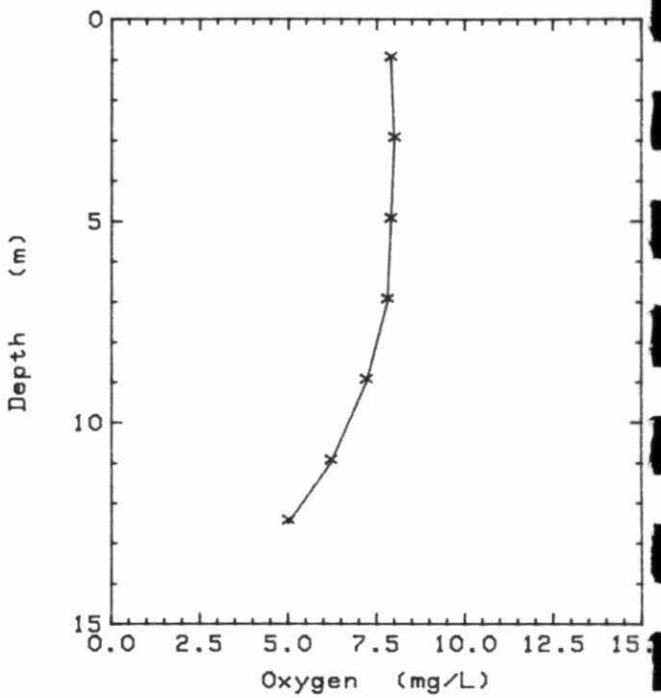
Temp ( C)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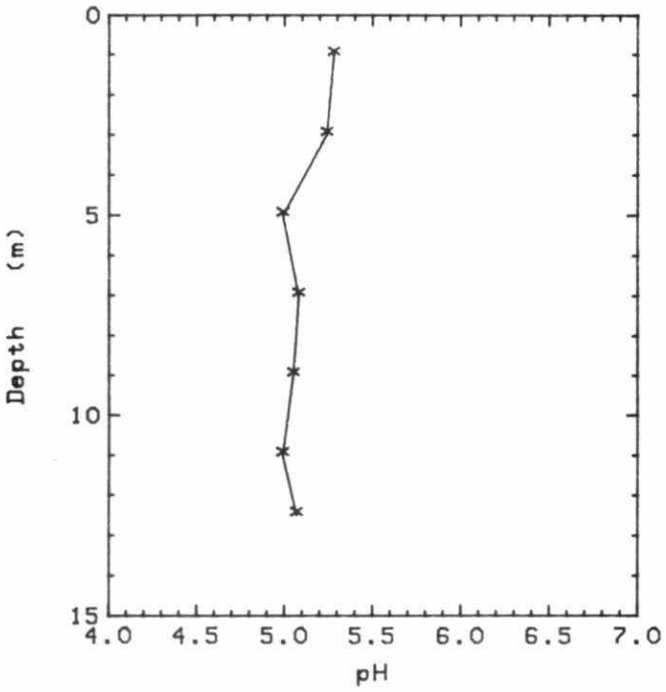
Oxygen (mg/L)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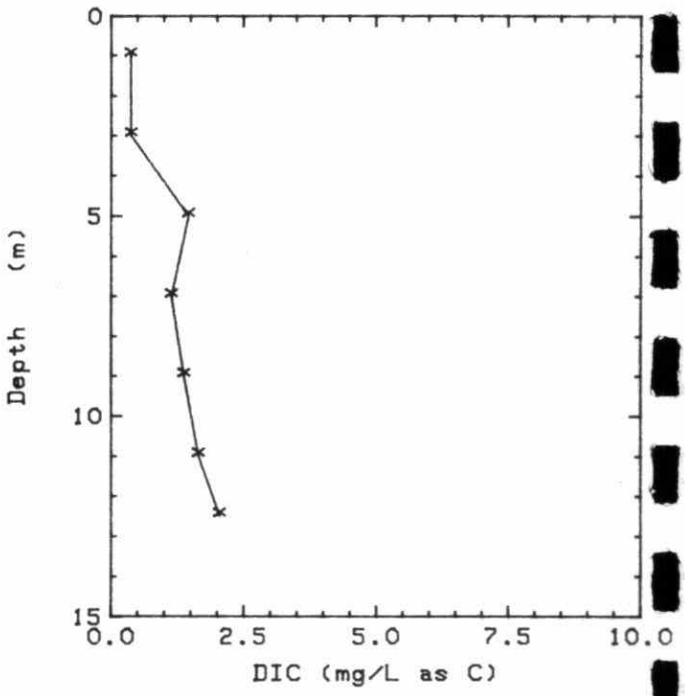
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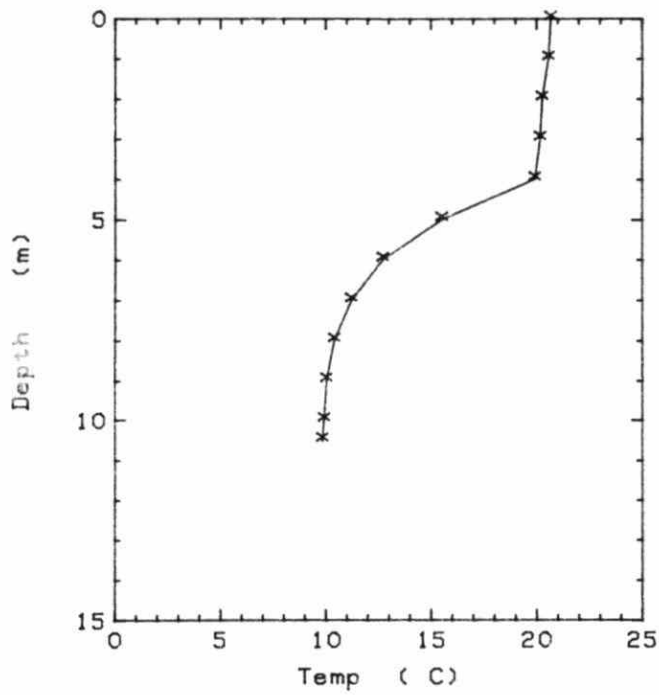
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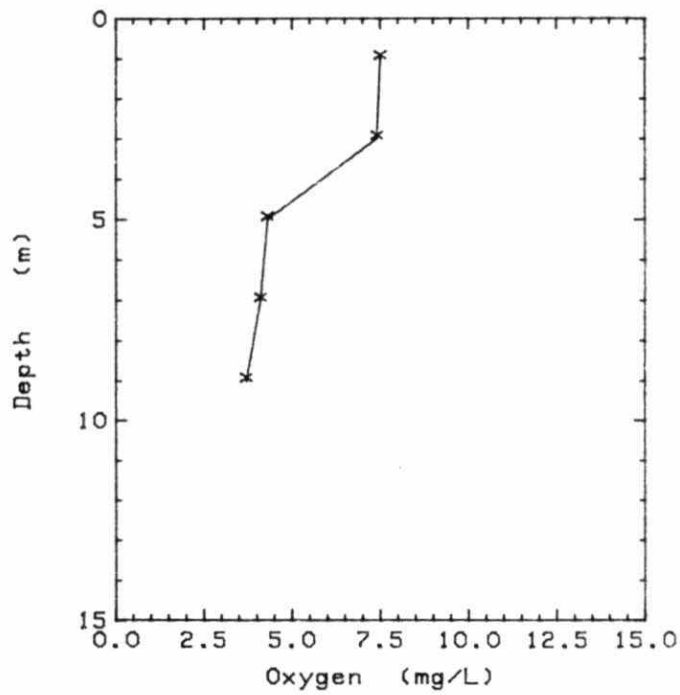
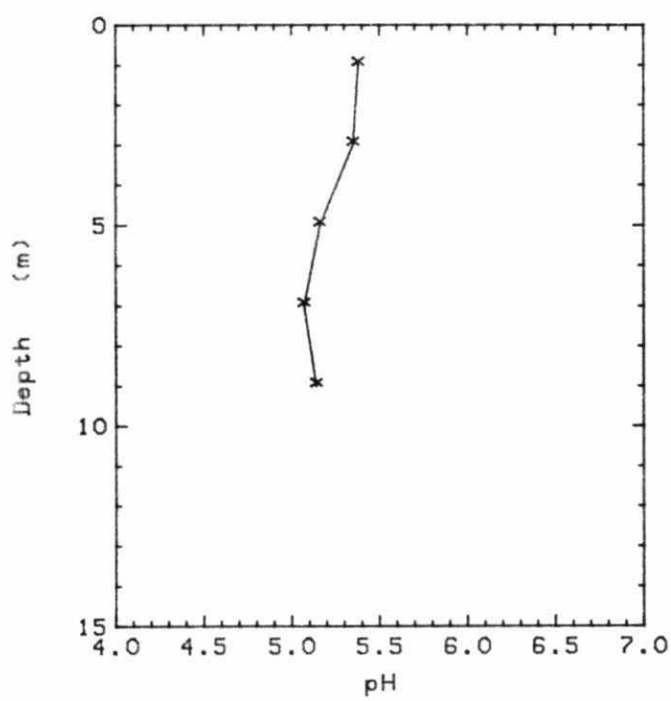
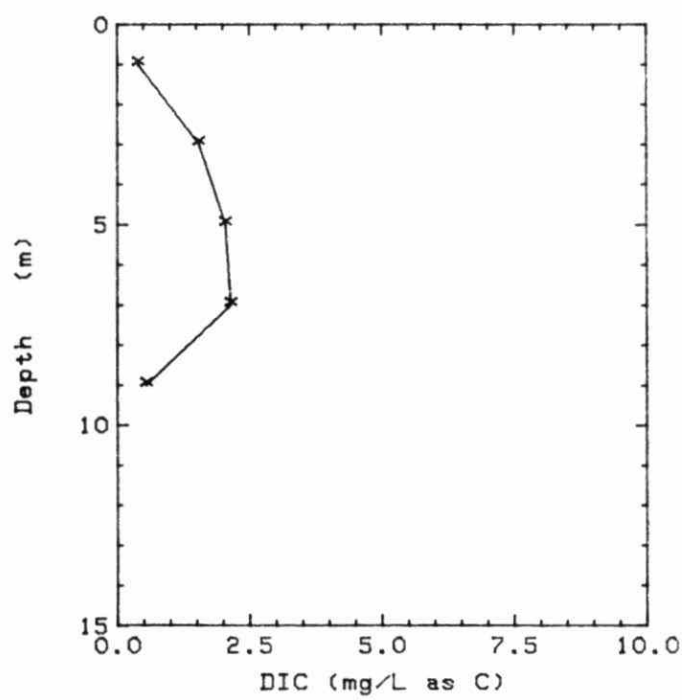
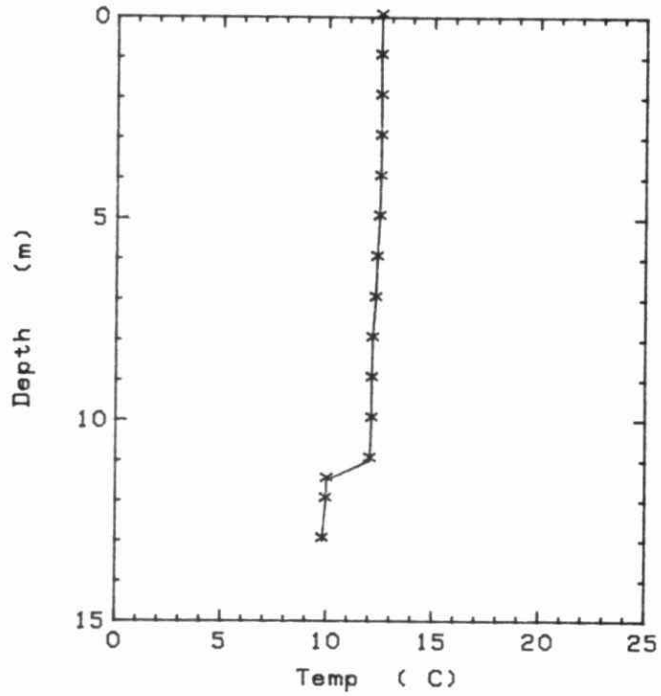
25
Temp ( C)

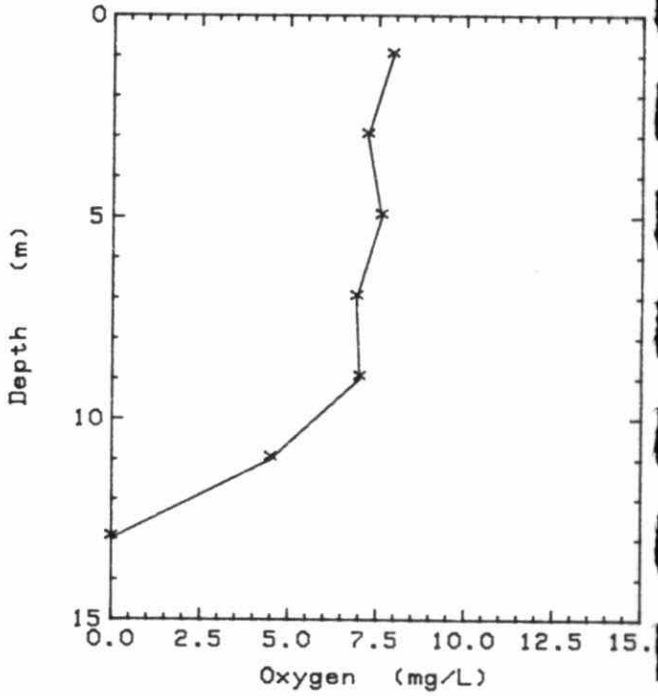

Depth (m)
0
5
10
15
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

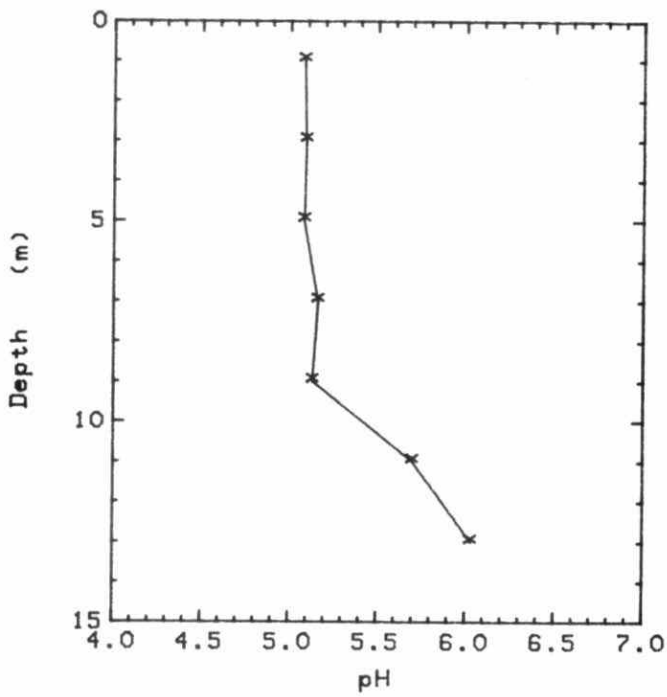

Depth (m)
0
5
10
15
4.0
4.5
5.0
5.5
6.0
6.5
7.0
pH


Depth (m)
0
5
10
15
0.0
2.5
5.0
7.5
10.0
DIC (mg/L as C)

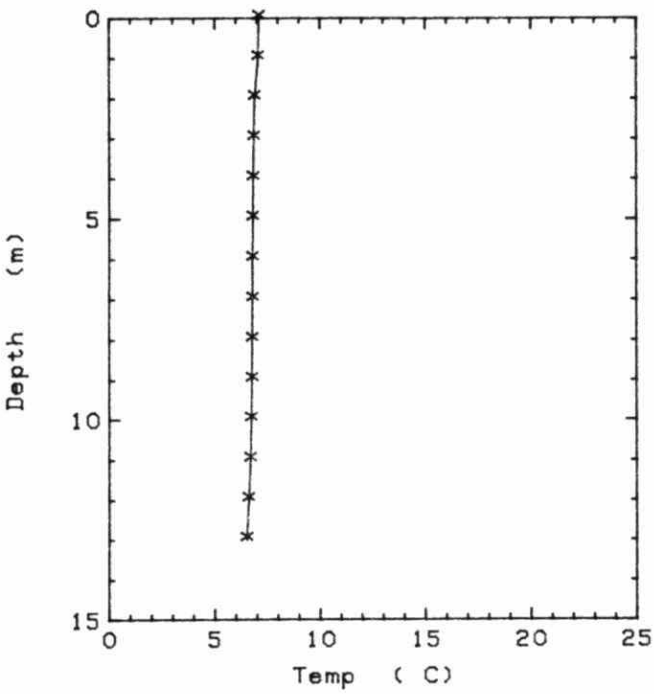
# AXE 81.09.30

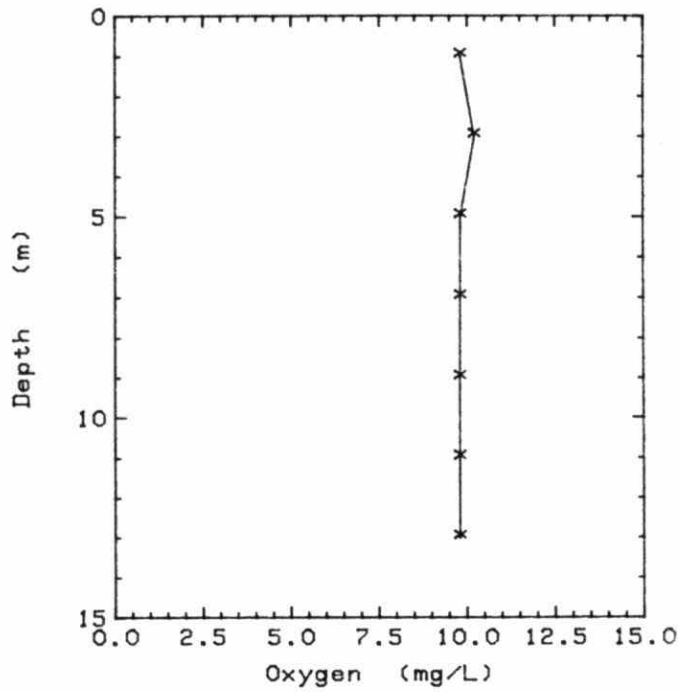

Depth (m)
0
5
10
15
0
5
10
15
20
25
Temp ( C)

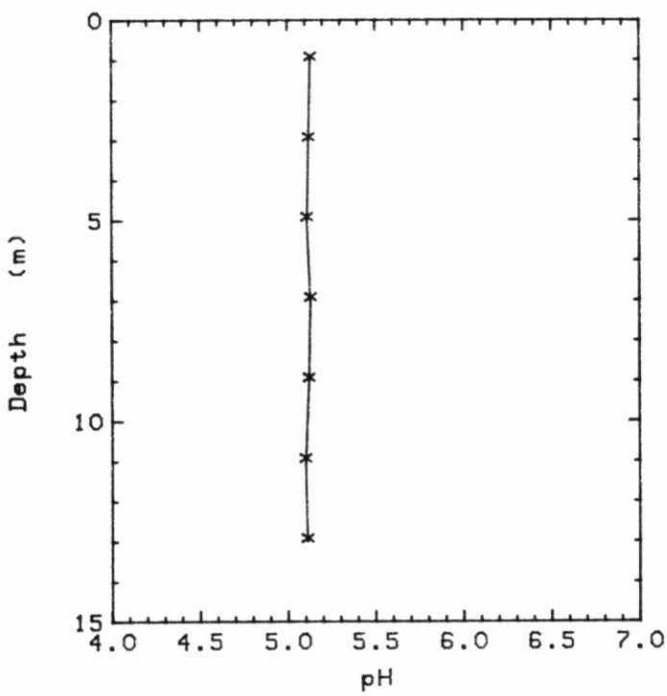

Depth (m)
0
5
10
15
0.0
2.5
5.0
7.5
10.0
12.5
15.
Oxygen (mg/L)

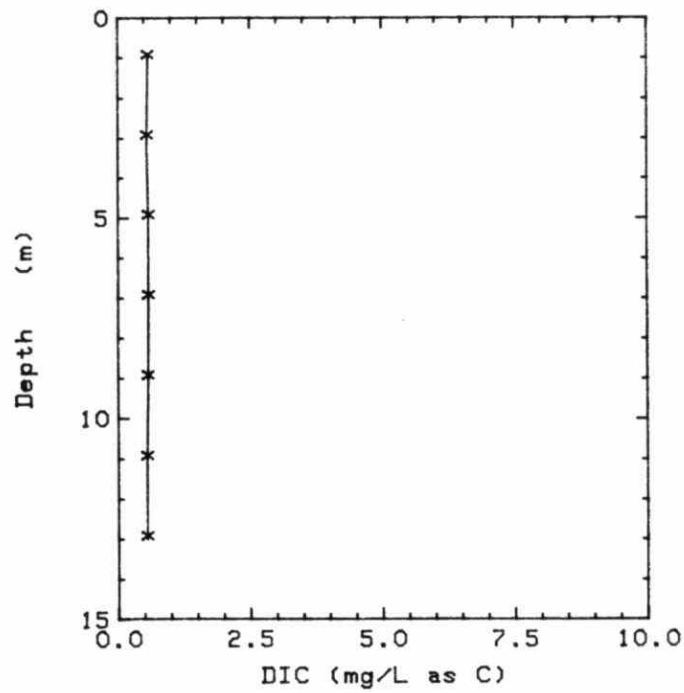

Depth (m)
0
5
10
15
4.0
4.5
5.0
5.5
6.0
6.5
7.0
pH

# AXE 81.10.27

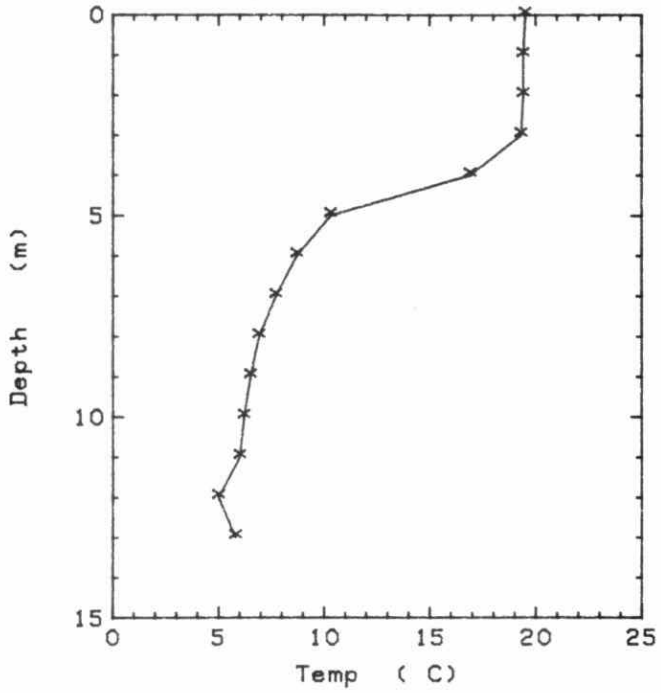

Depth (m)
0
5
10
15
0
5
10
15
20
25
Temp ( C)

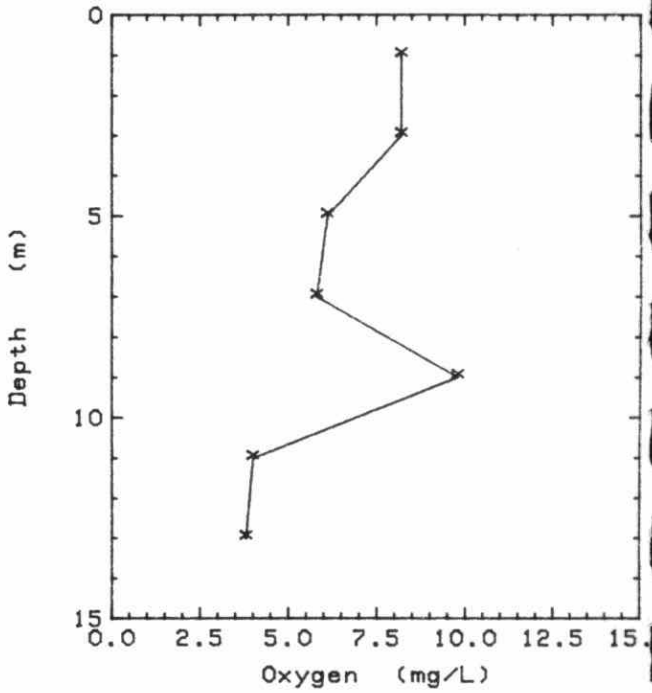

Depth (m)
0
5
10
15
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

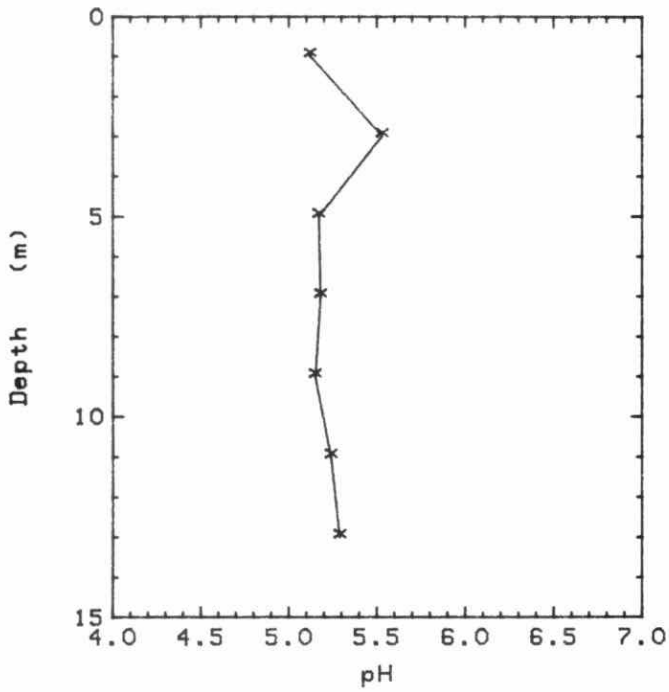

Depth (m)
0
5
10
15
4.0
4.5
5.0
5.5
6.0
6.5
7.0
pH


Depth (m)
0
5
10
15
0.0
2.5
5.0
7.5
10.0
DIC (mg/L as C)

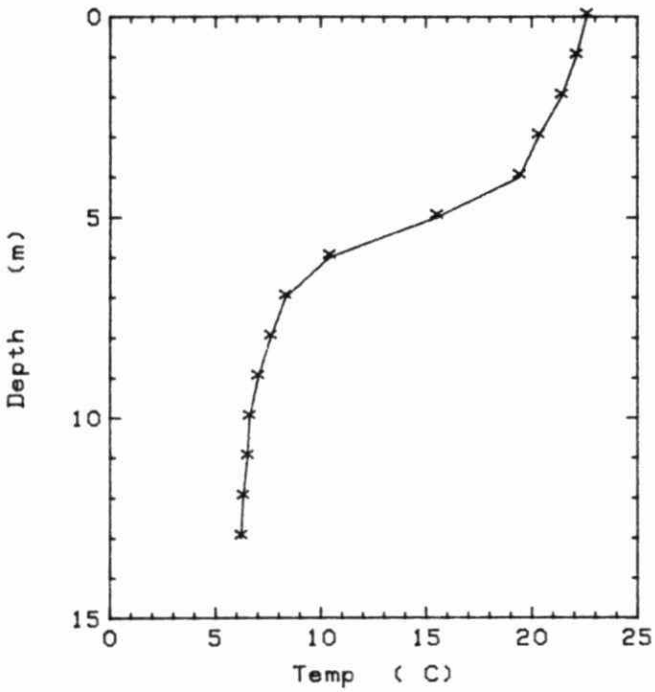
# AXE 82.06.14

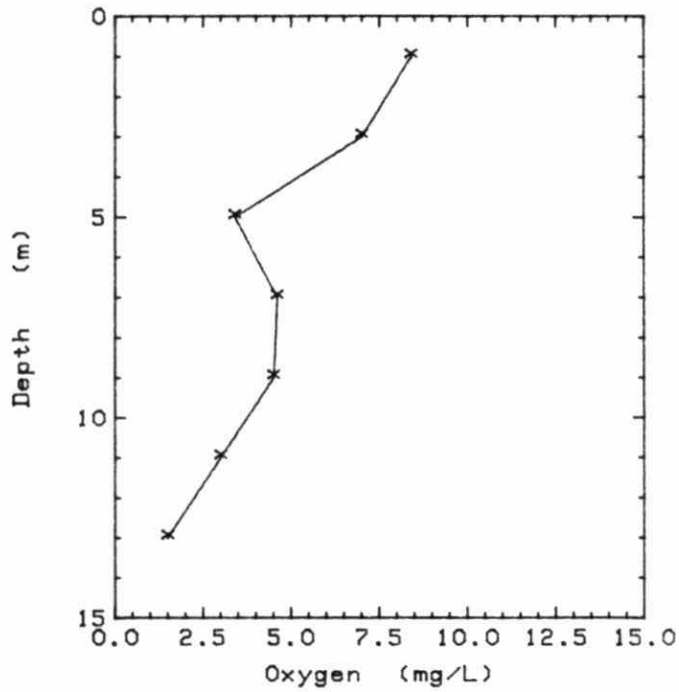

Depth (m)
0
5
10
15
0
5
10
15
20
25
Temp ( C)

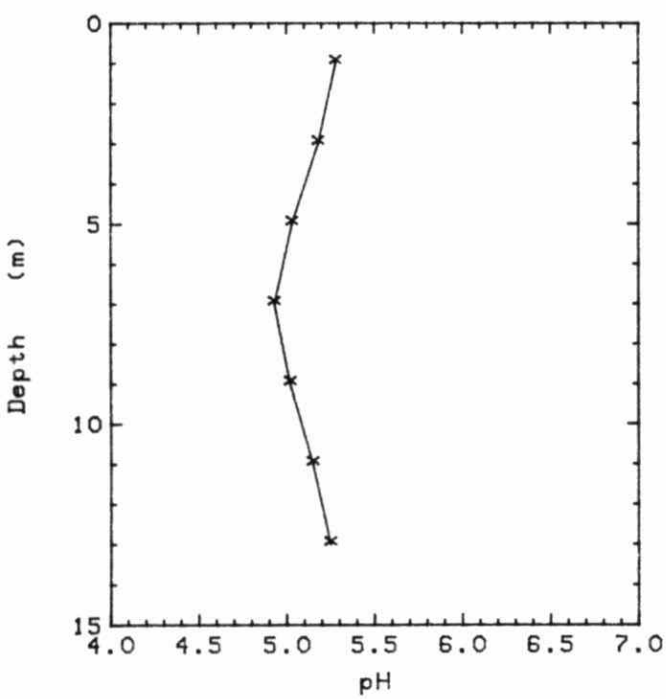

Depth (m)
0
5
10
15
0.0
2.5
5.0
7.5
10.0
12.5
15.
Oxygen (mg/L)


Depth (m)
0
5
10
15
4.0
4.5
5.0
5.5
6.0
6.5
7.0
pH

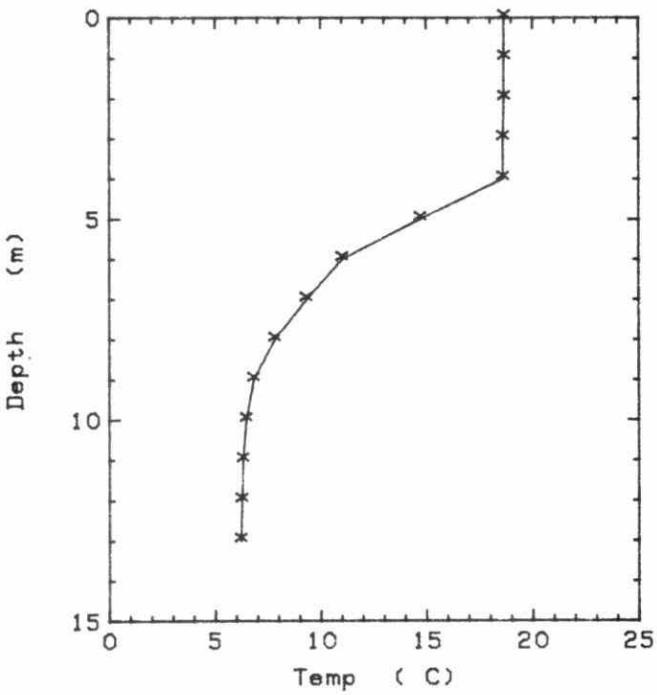
# AXE 82.07.15

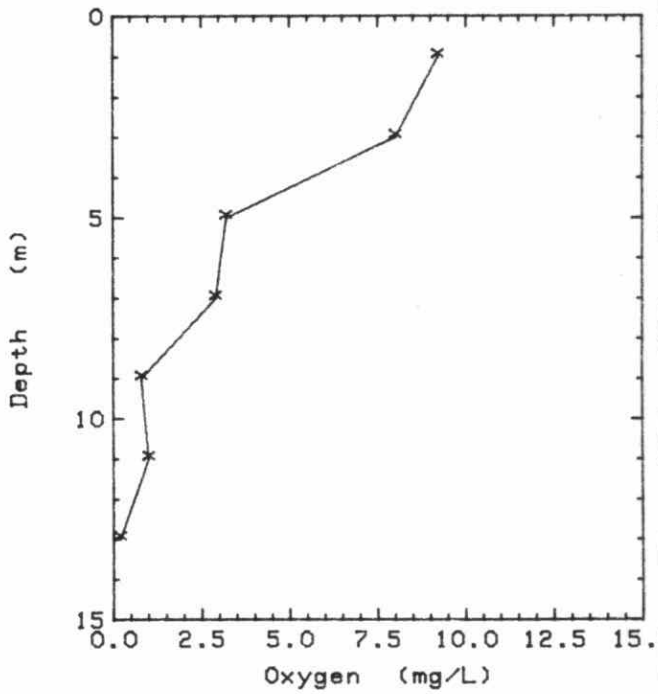

Depth (m)
0
5
10
15
0
5
10
15
20
25
Temp ( C)

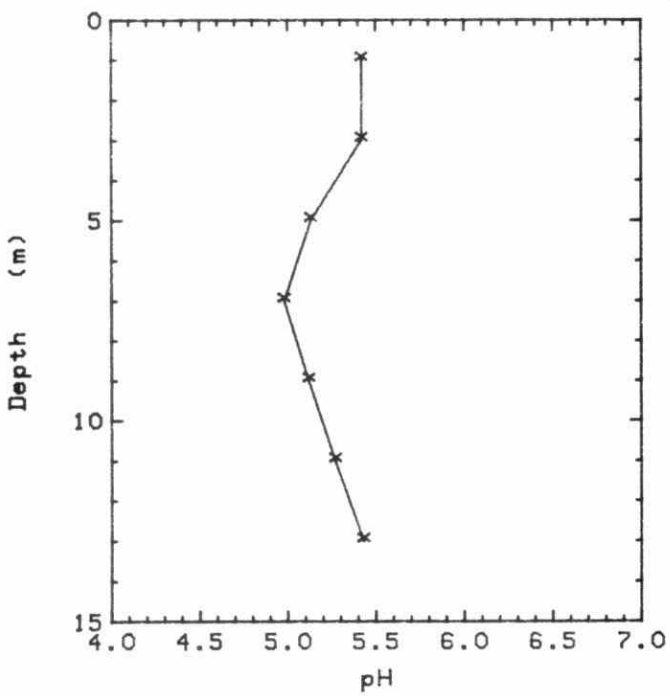

Depth (m)
0
5
10
15
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)


Depth (m)
0
5
10
15
4.0
4.5
5.0
5.5
6.0
6.5
7.0
pH

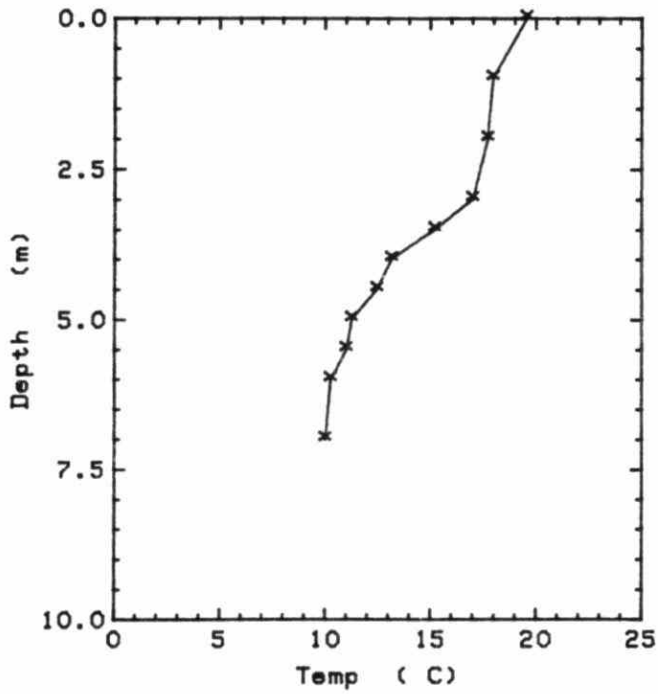
# AXE 82.08.11

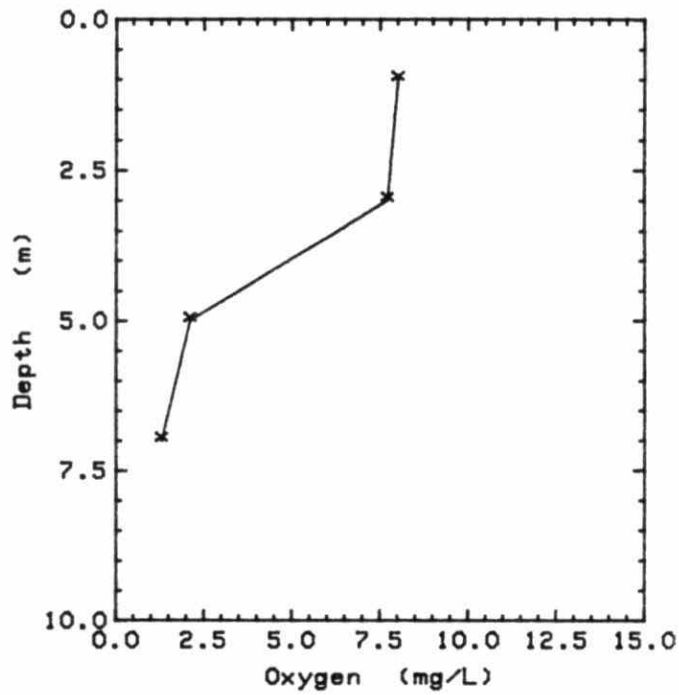

Depth (m)
0
5
10
15
0
5
10
15
20
25
Temp ( C)

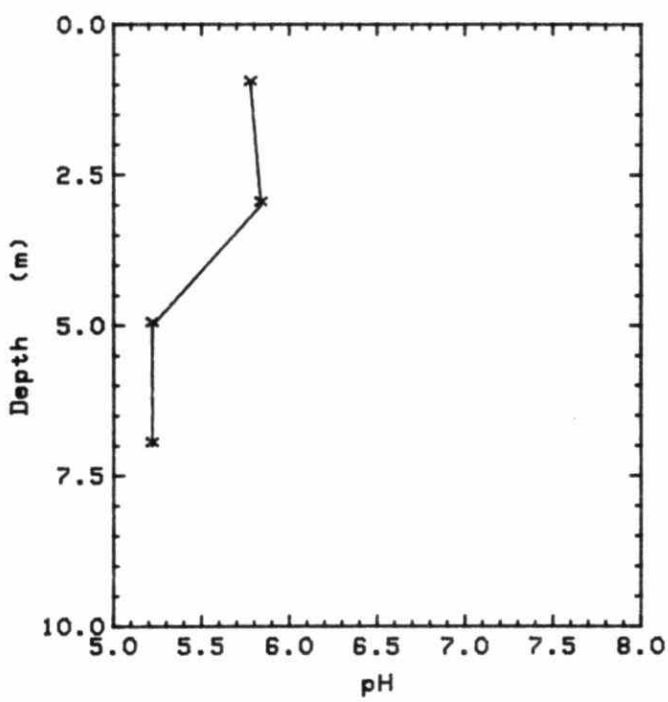

Depth (m)
0
5
10
15
0.0
2.5
5.0
7.5
10.0
12.5
15.
Oxygen (mg/L)


Depth (m)
0
5
10
15
4.0
4.5
5.0
5.5
6.0
6.5
7.0
pH

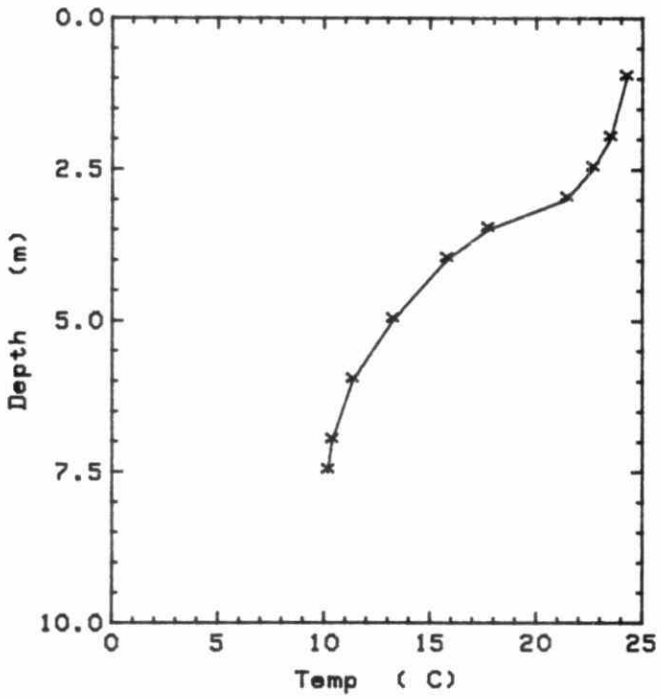
# BRANDY 79.06.25

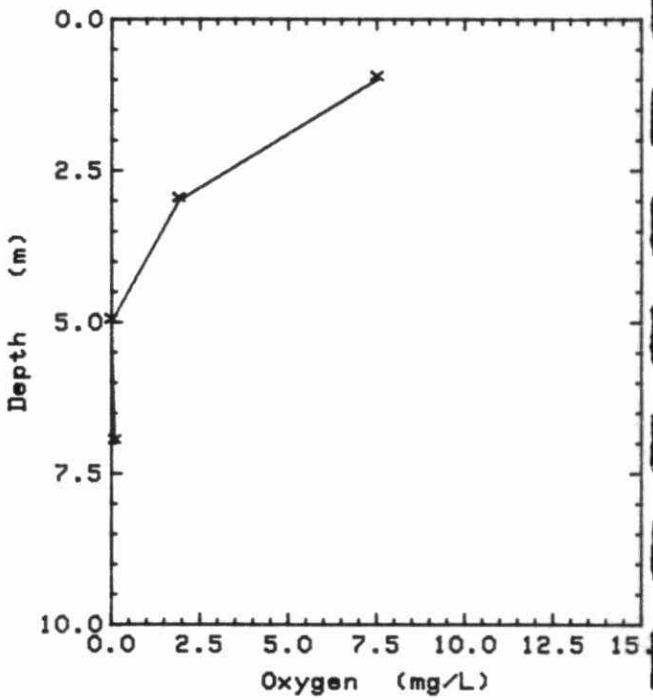


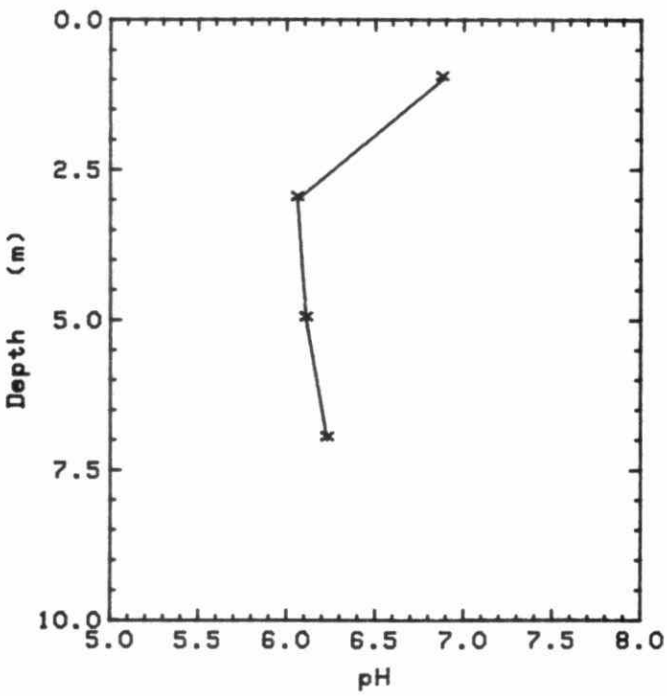



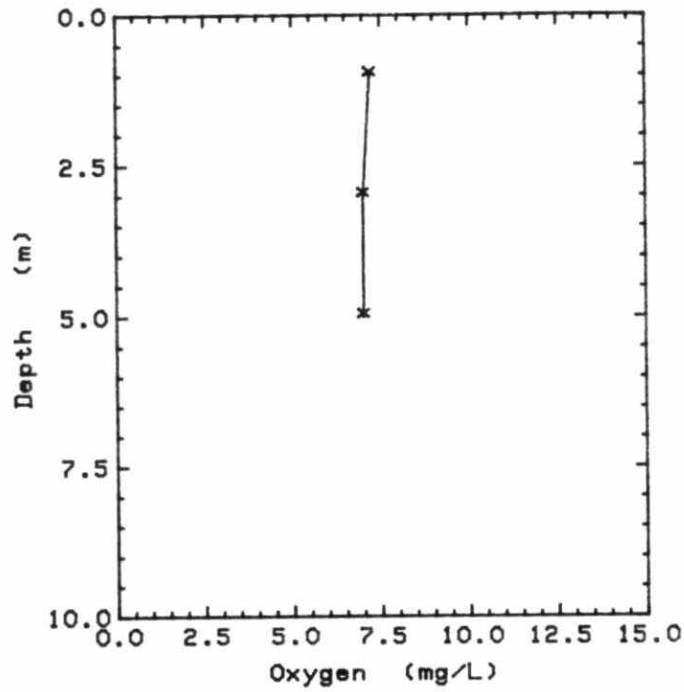
# BRANDY 79.07.30

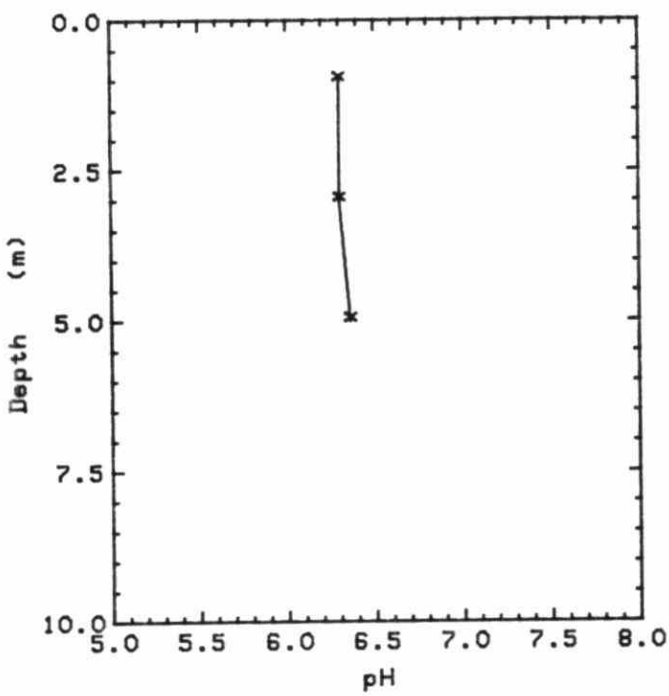


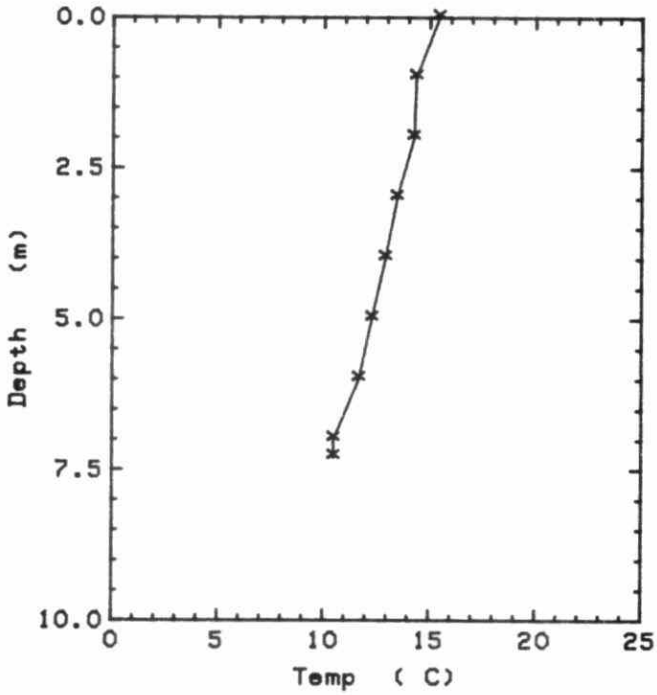



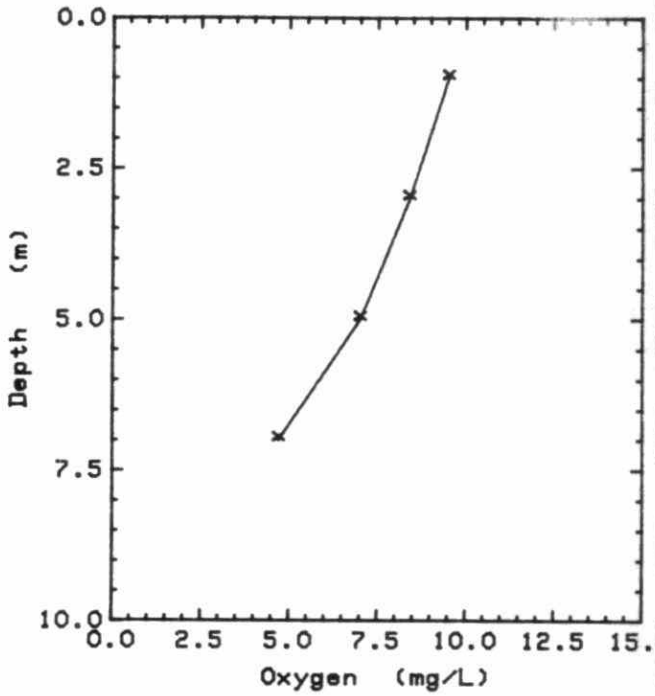
# BRANDY 79.09.12

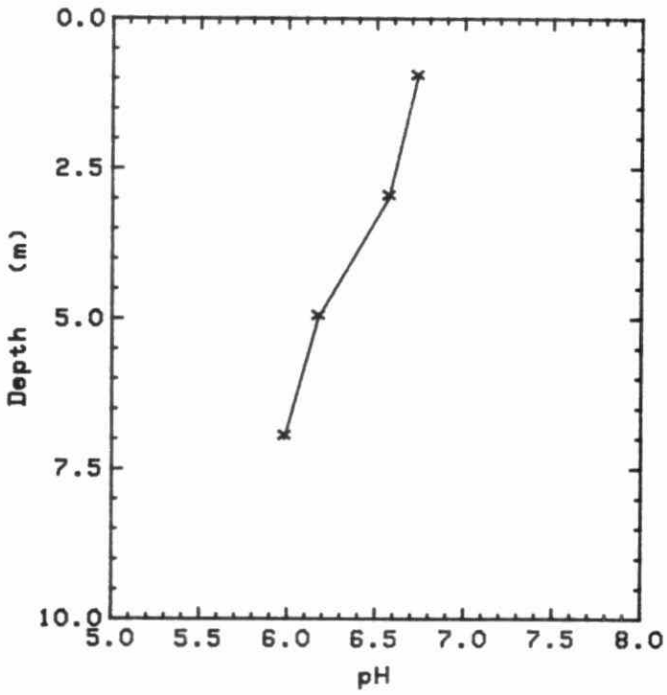


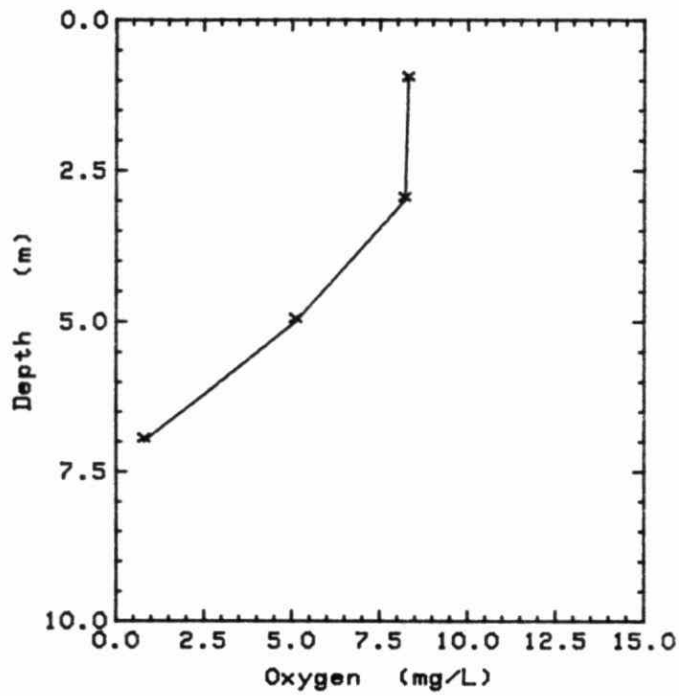
# BRANDY 80.05.20

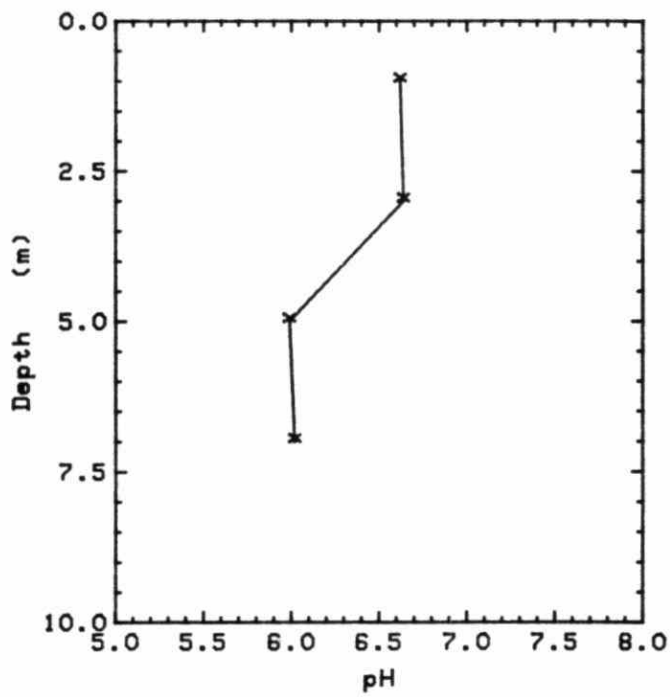


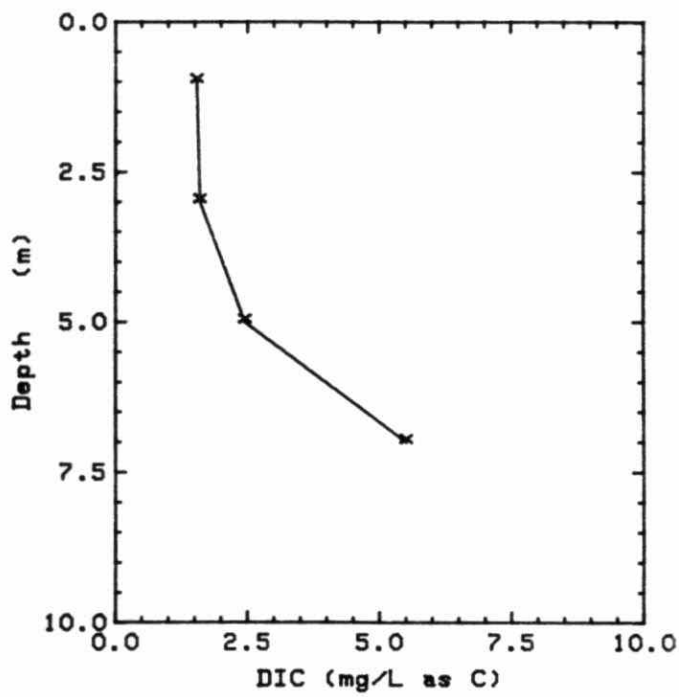



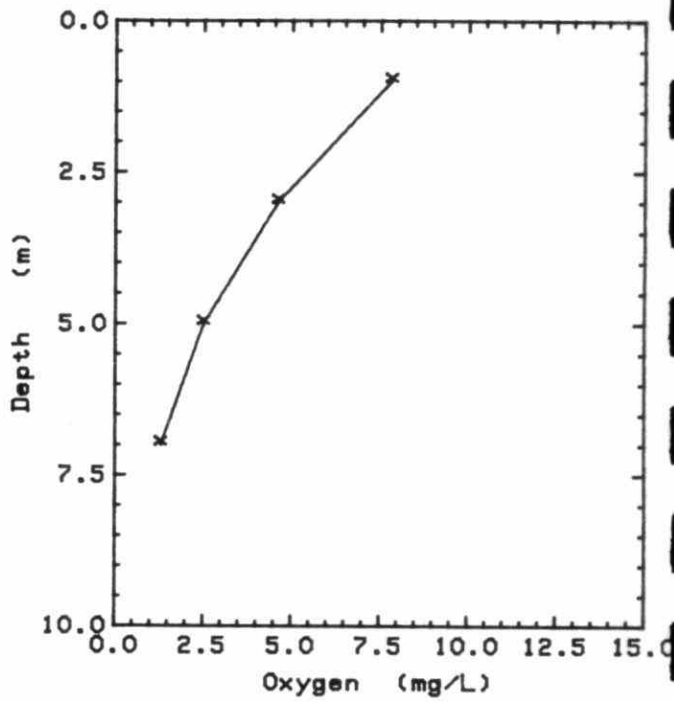
# BRANDY 80.06.16

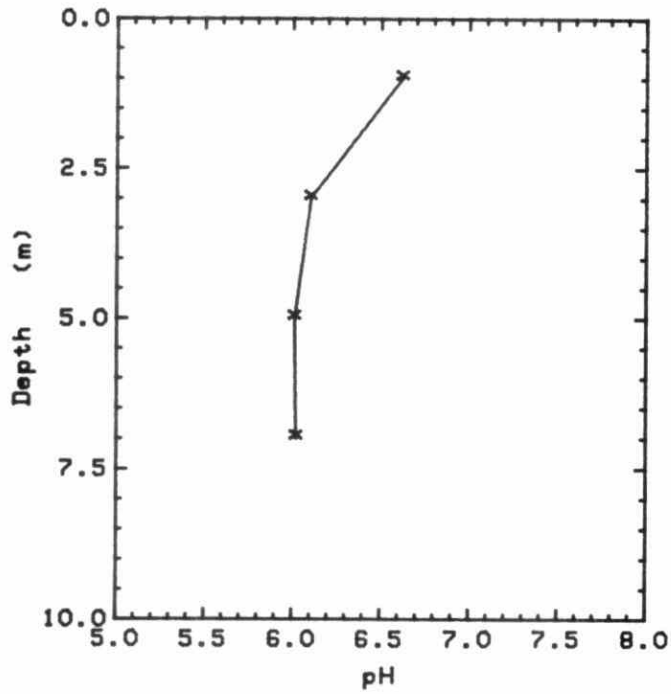


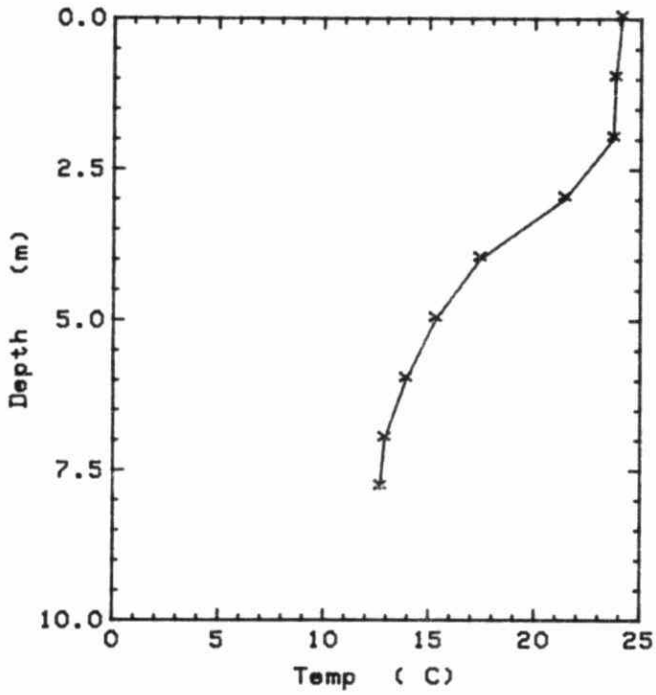



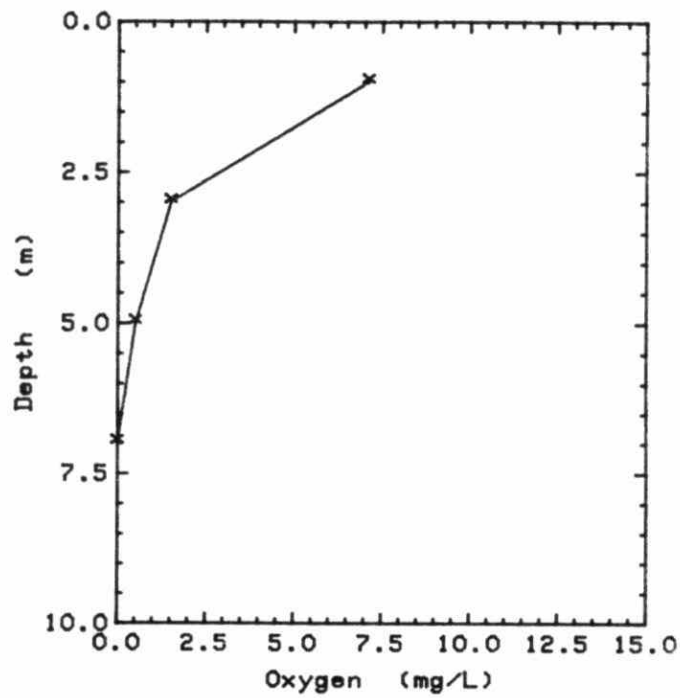
# BRANDY 80.07.14

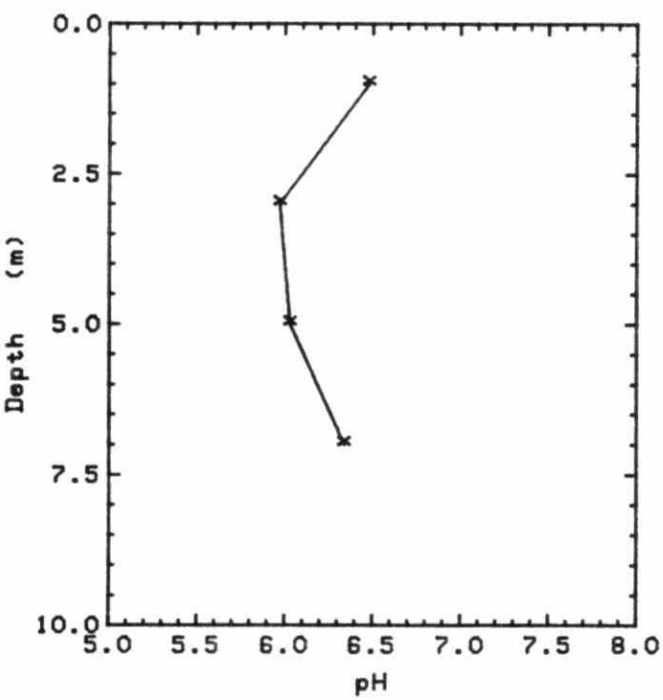


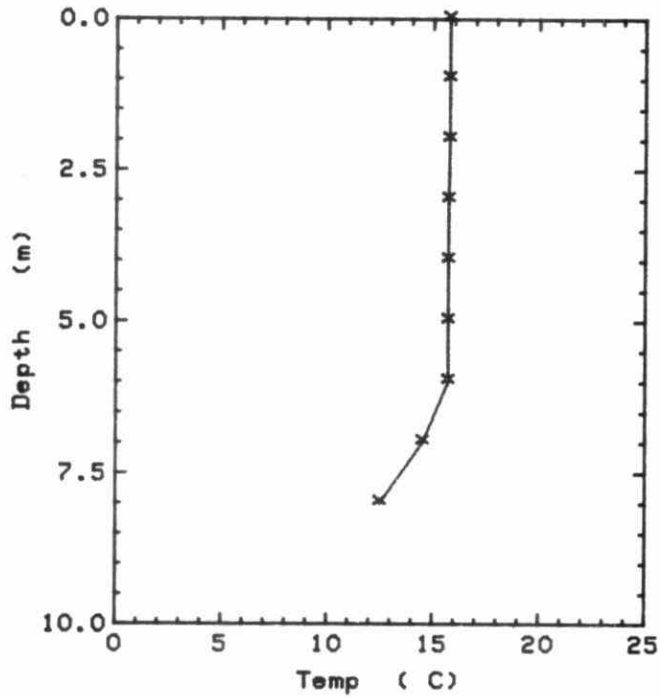
# BRANDY 80.08.11

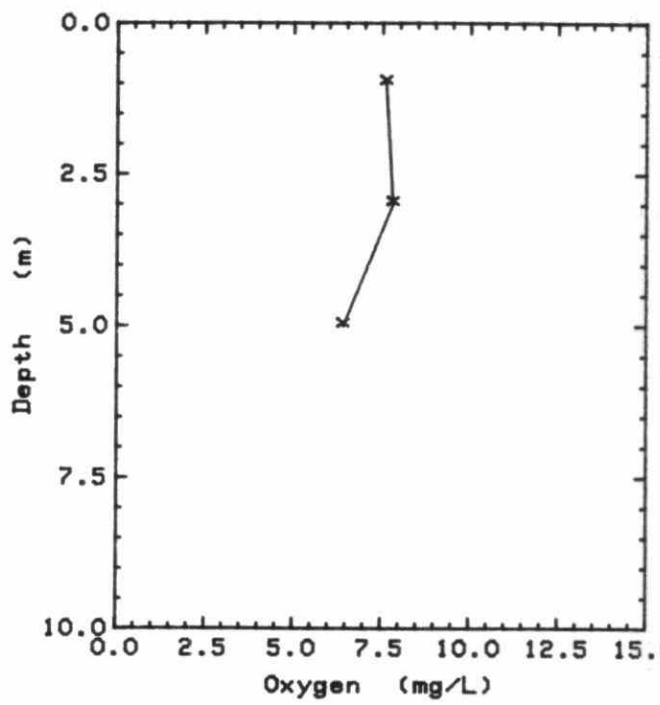


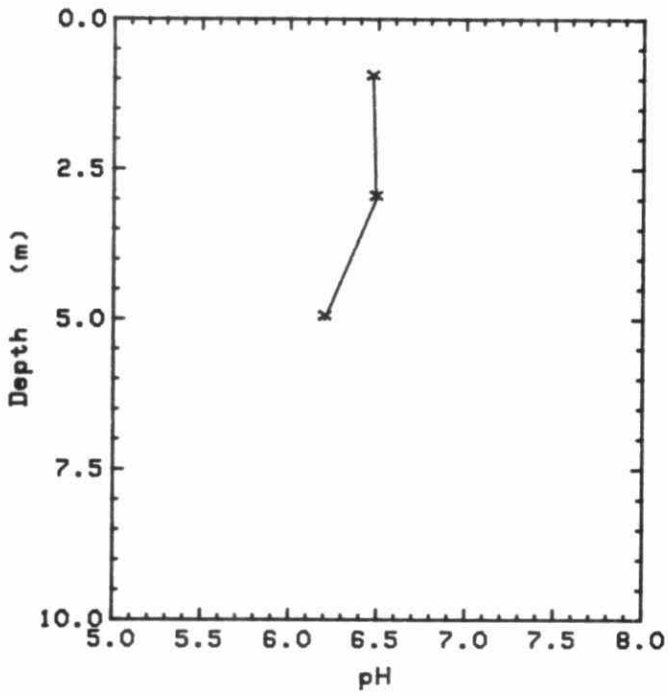



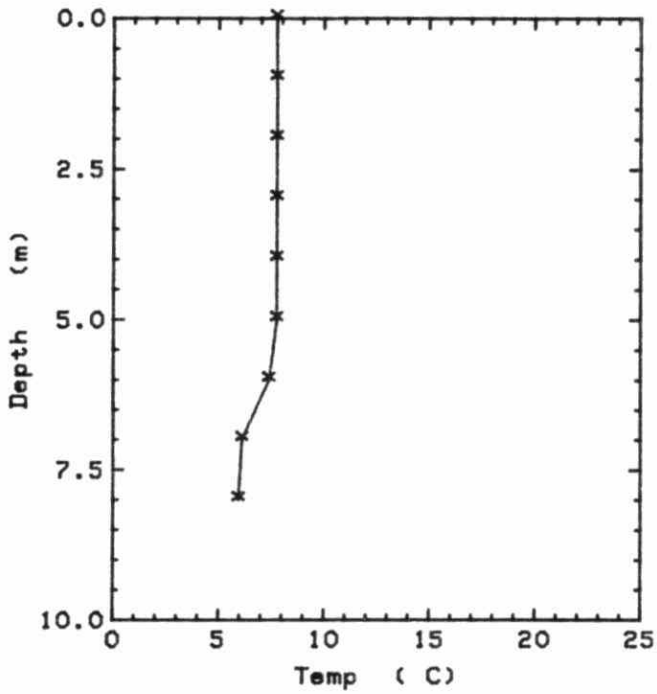
# BRANDY 80.09.24

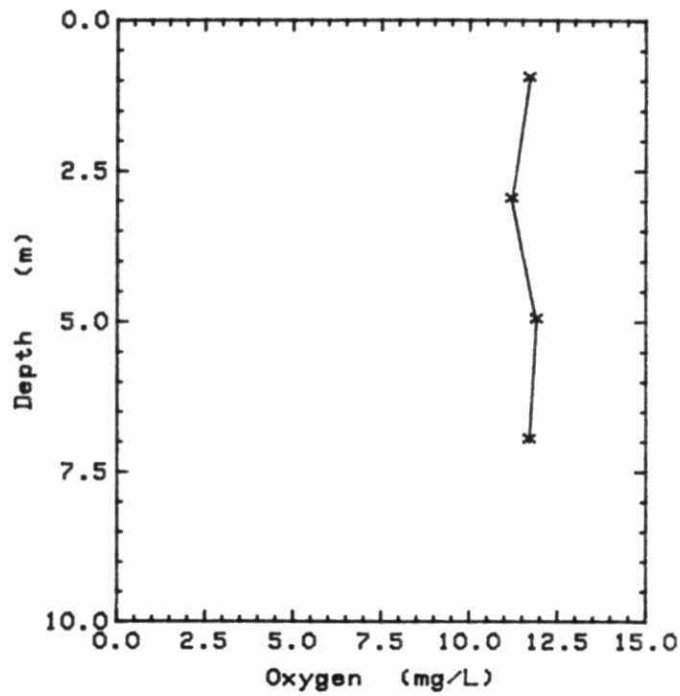


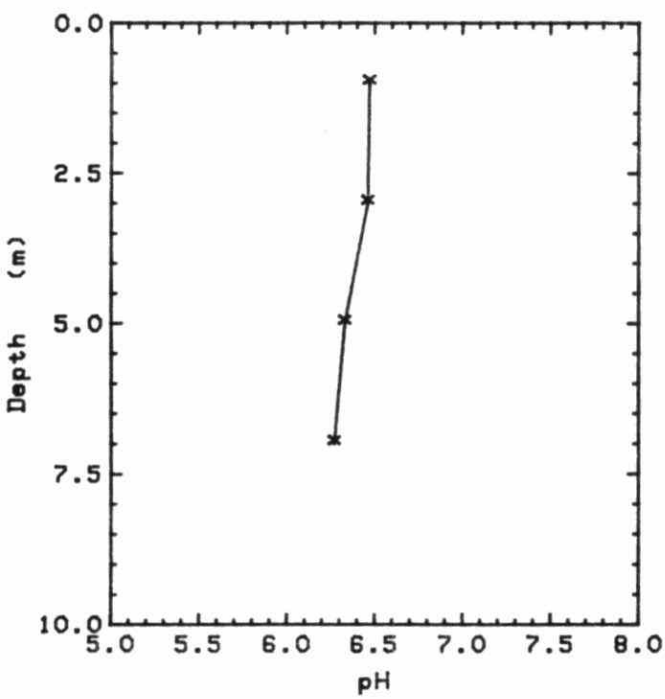



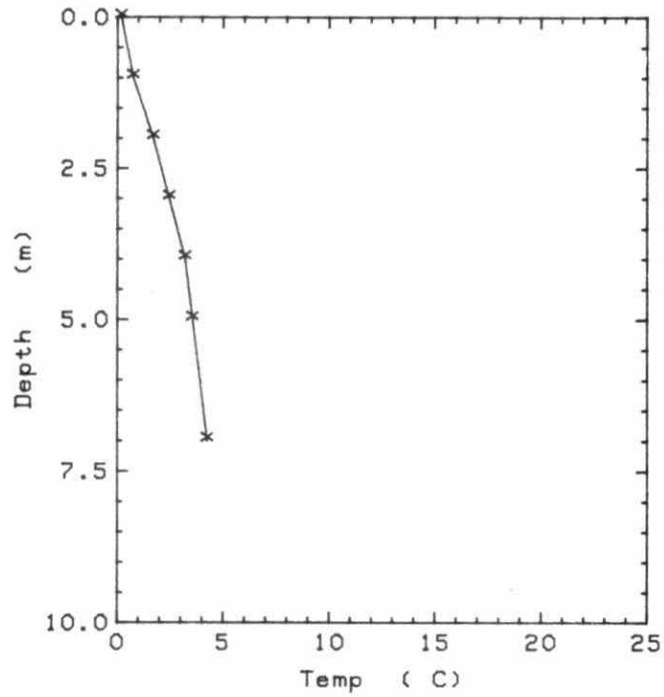
# BRANDY 80.10.24

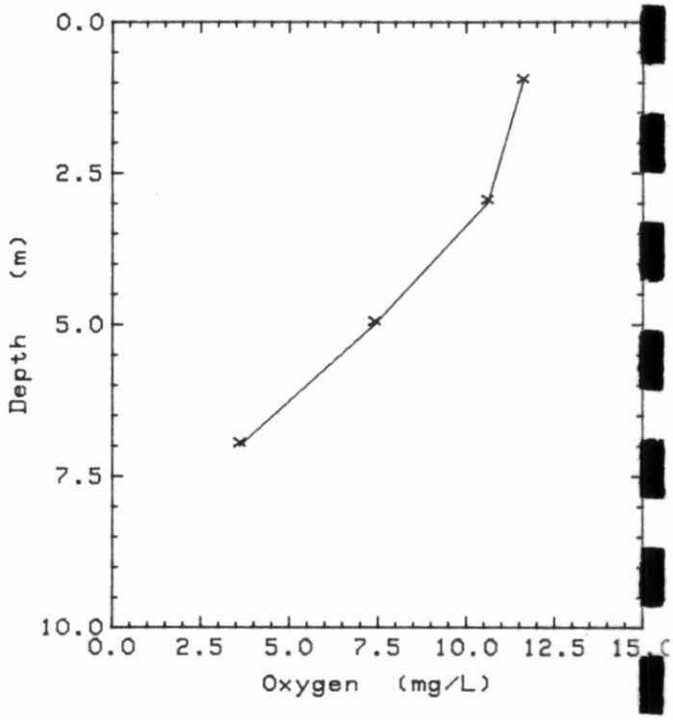


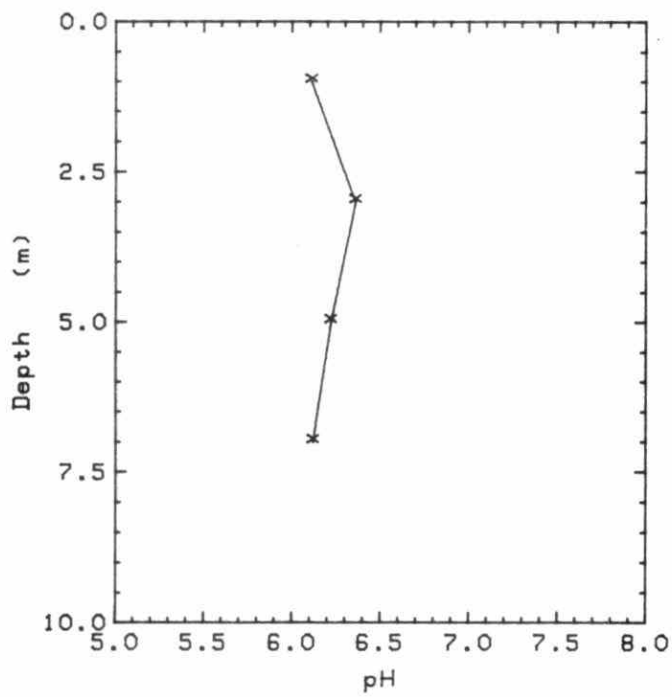



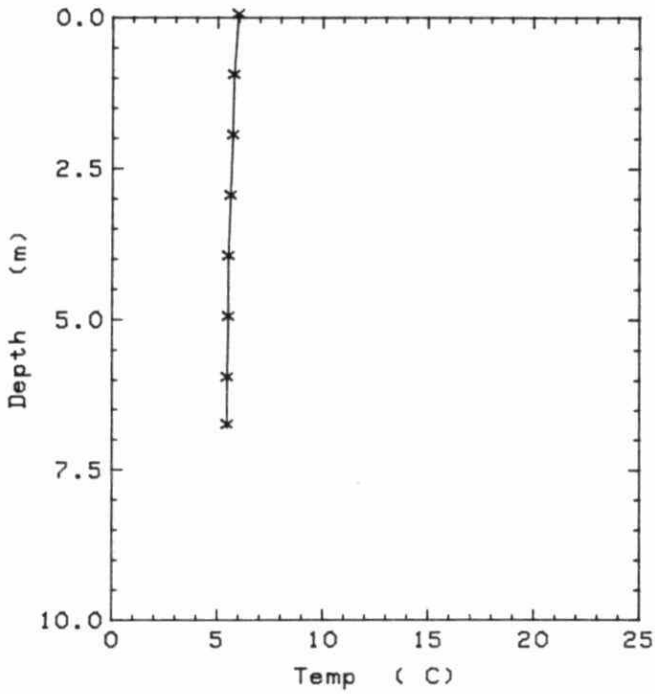
# BRANDY 81.01.22

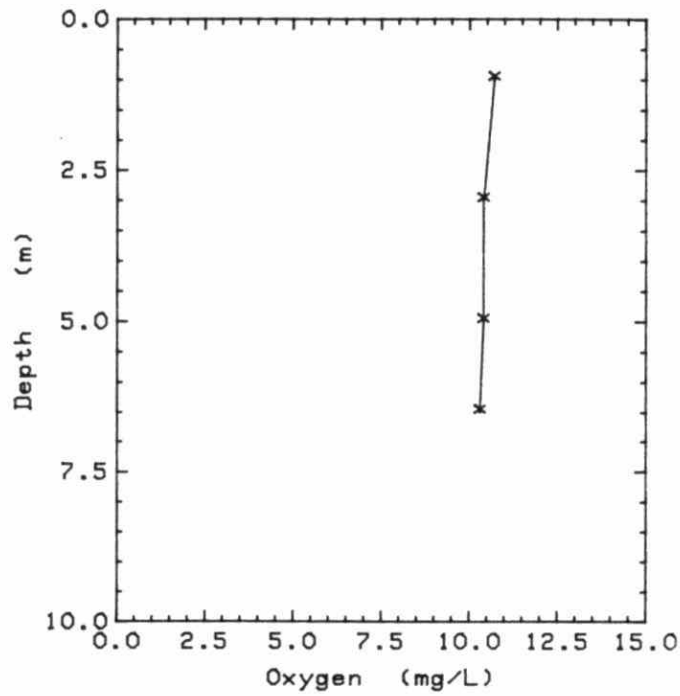


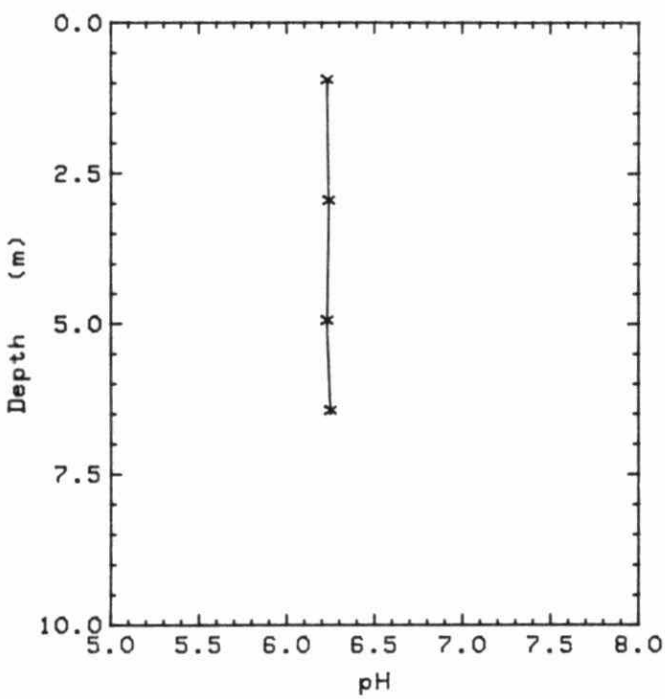



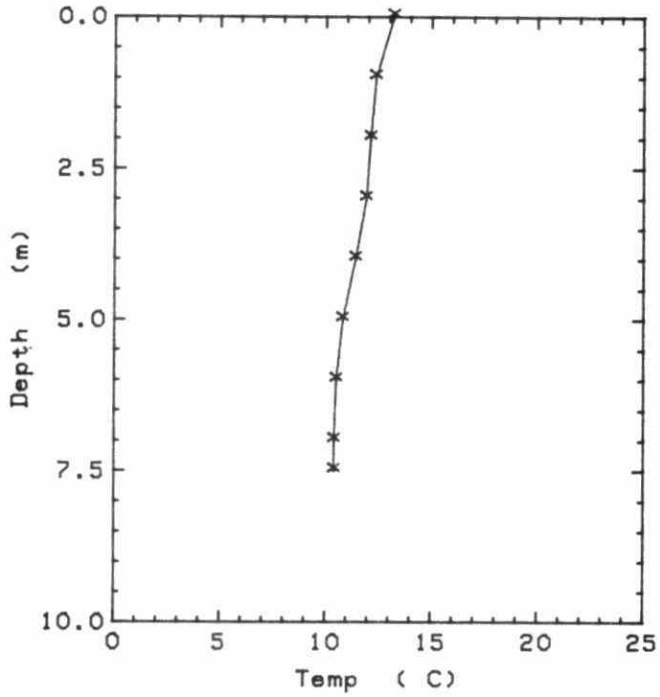
# BRANDY 81.04.09

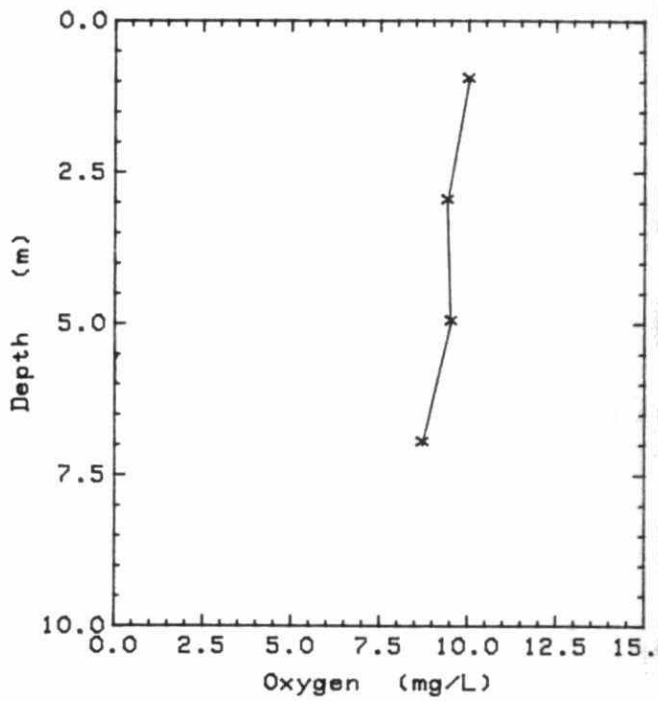


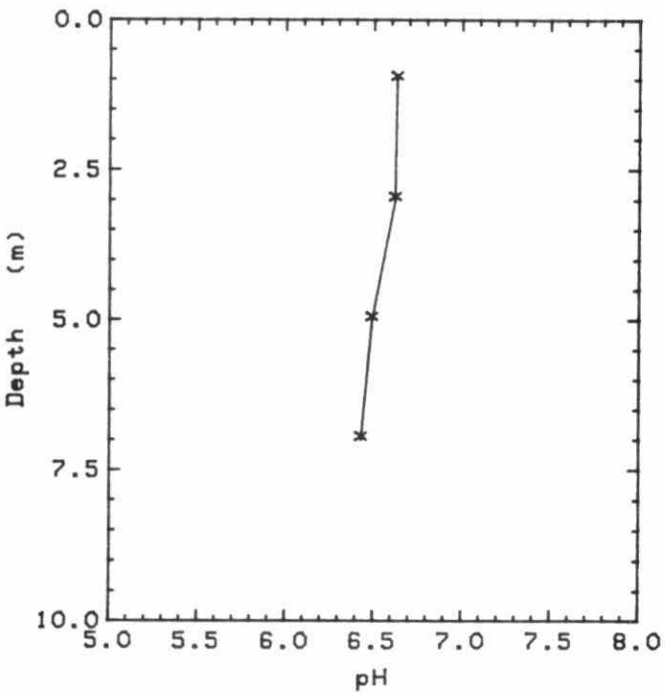



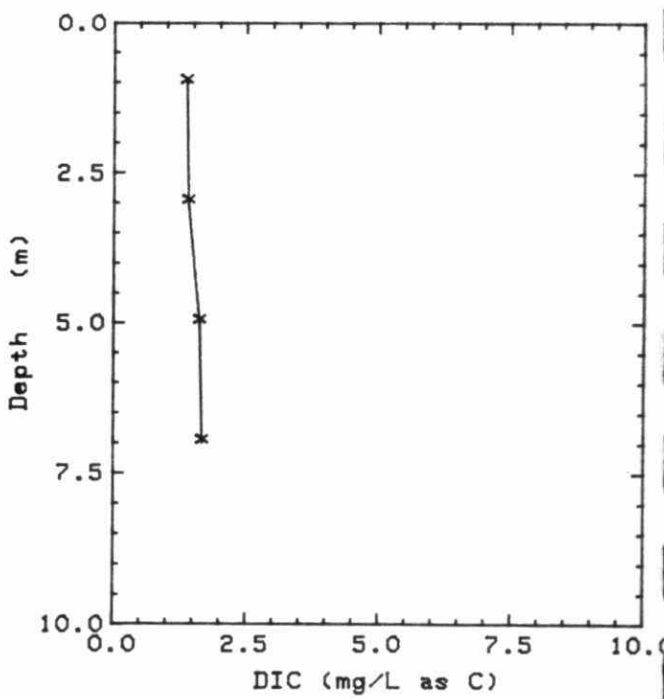



# BRANDY 81.05.20



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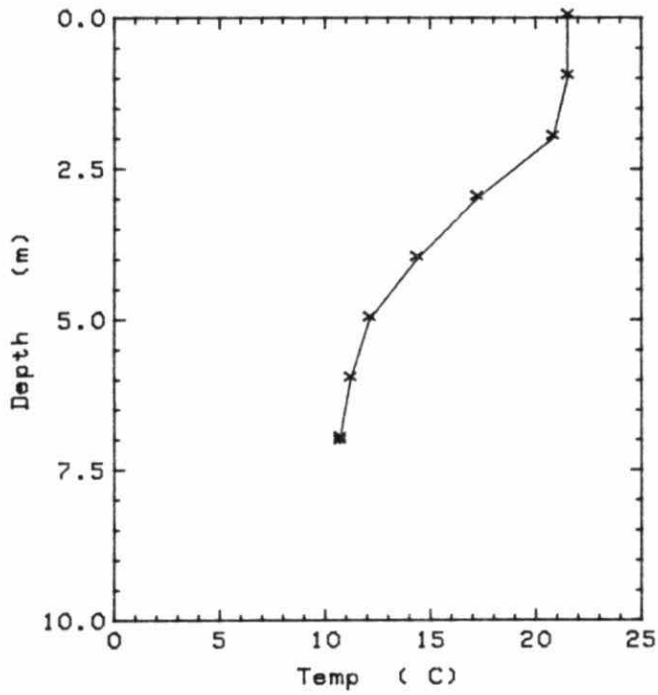


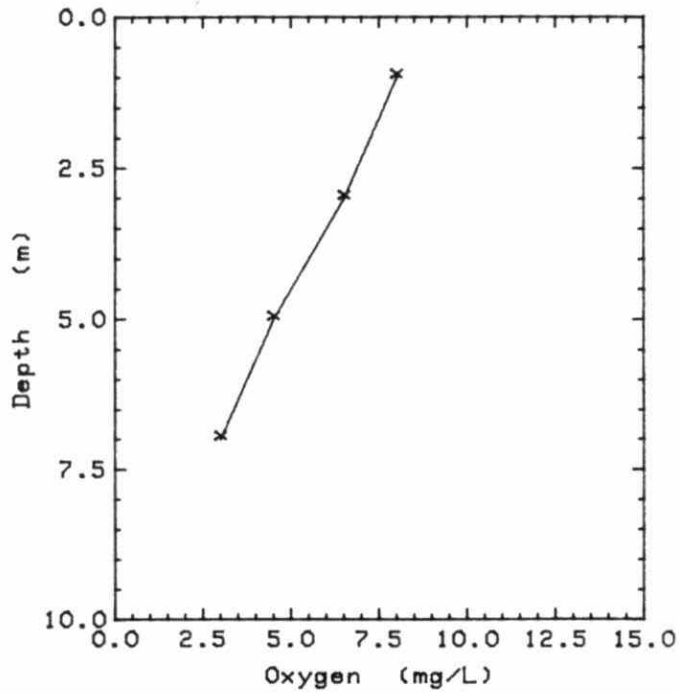


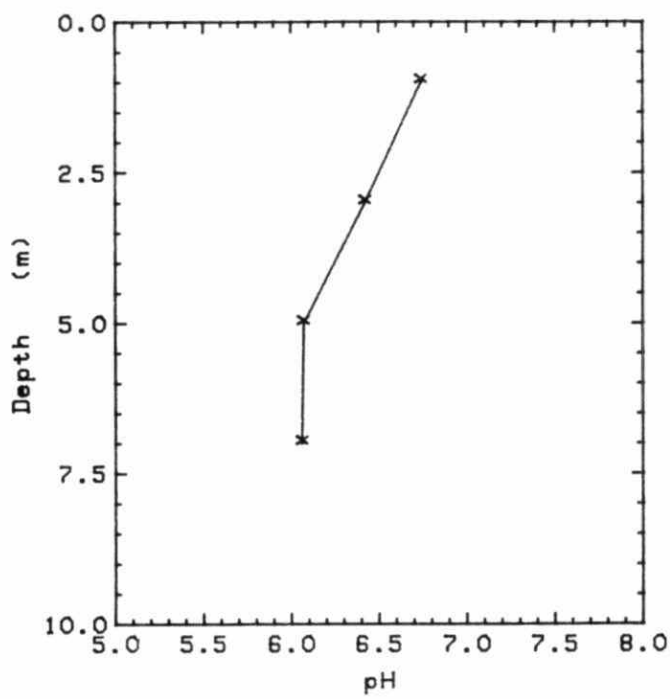


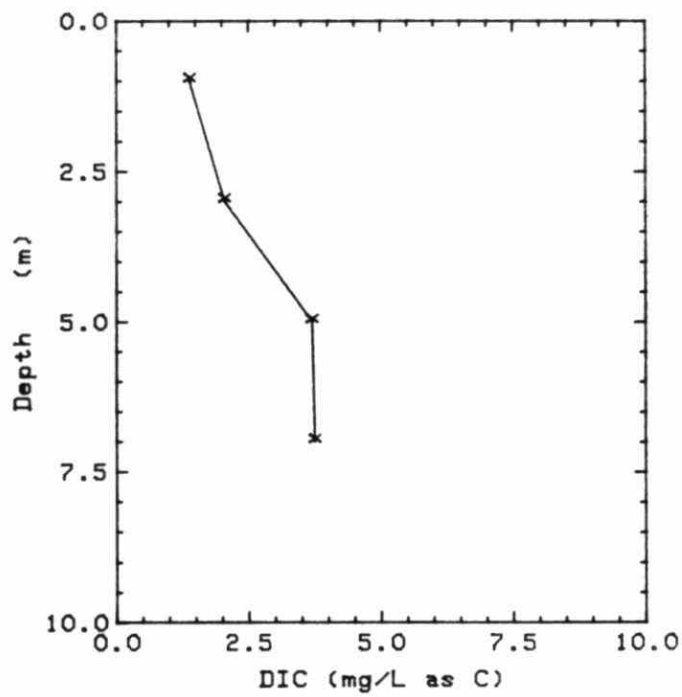

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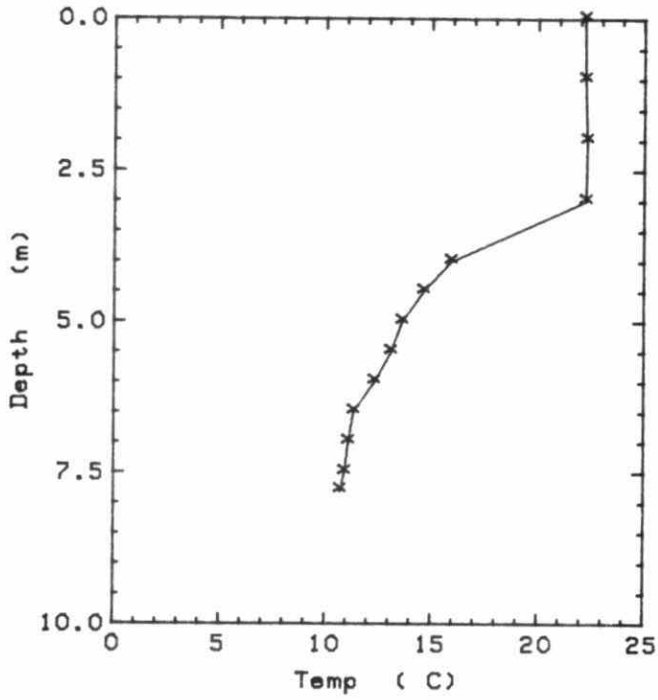
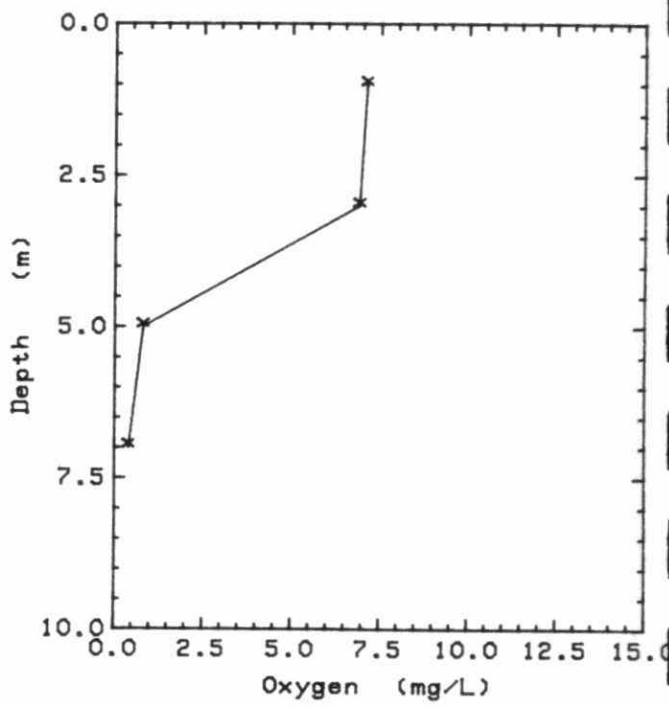
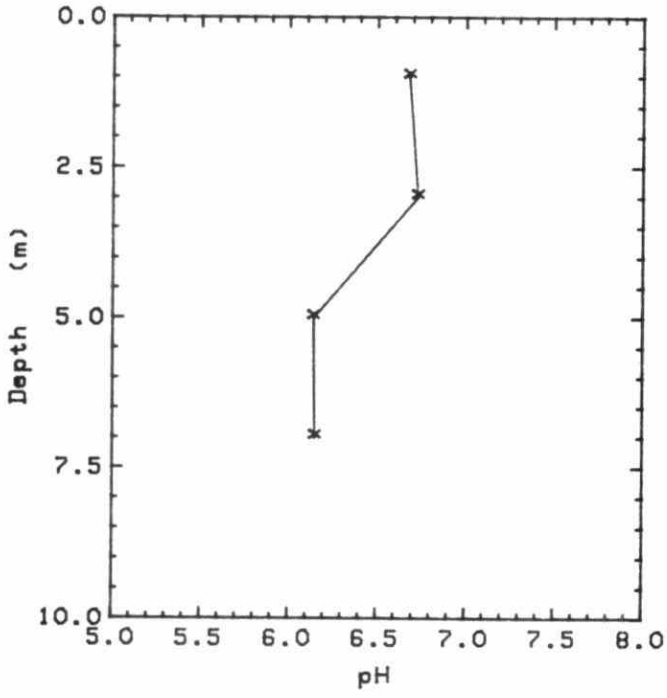
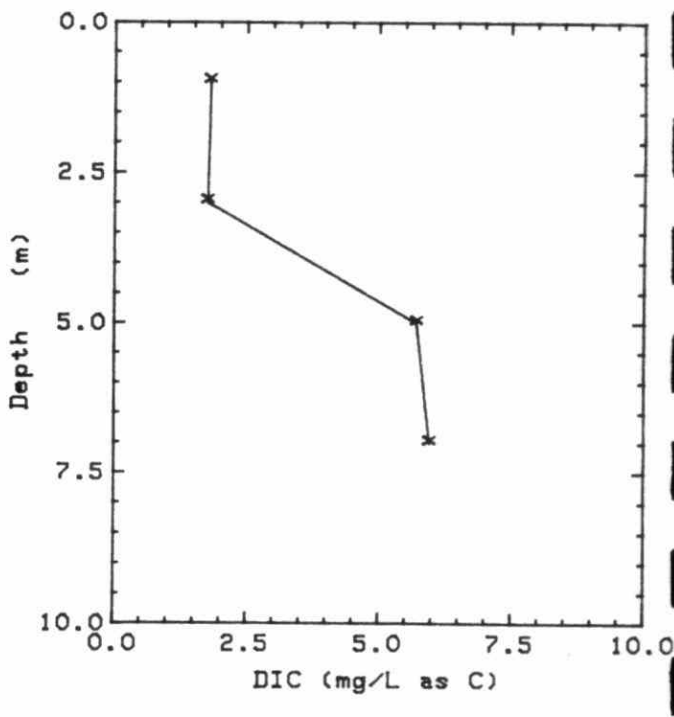
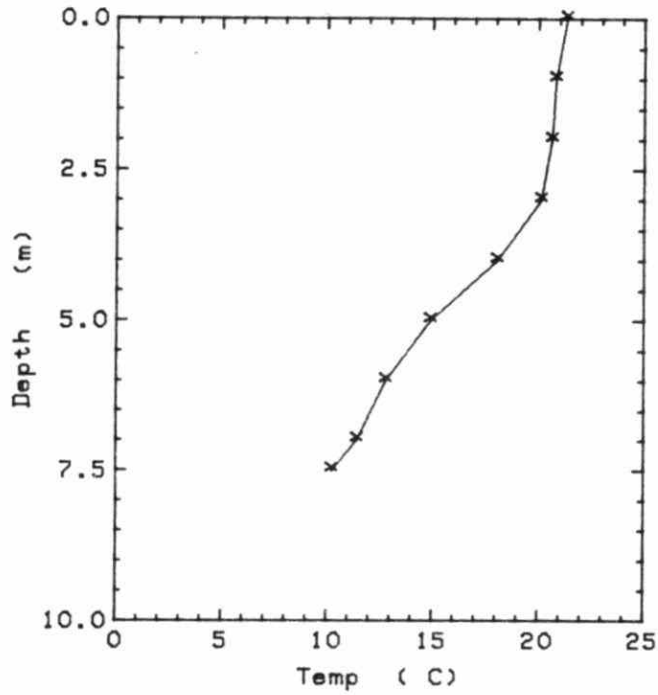


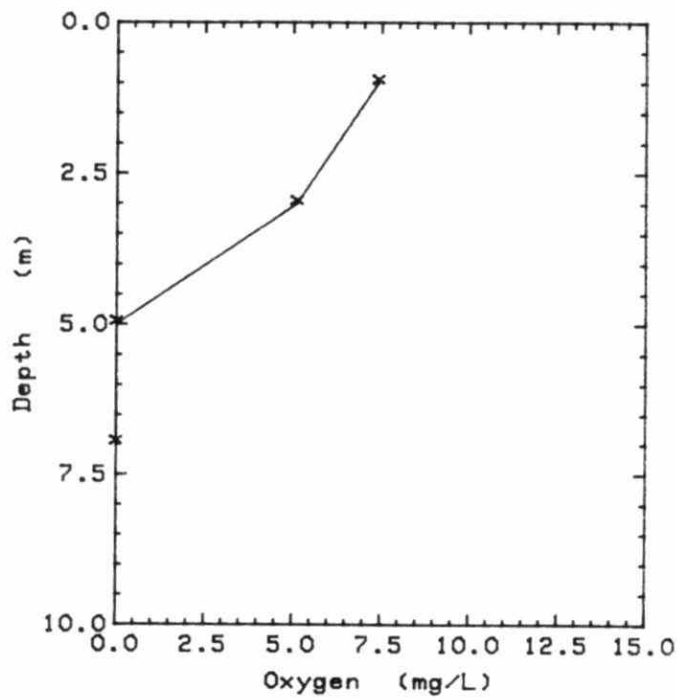



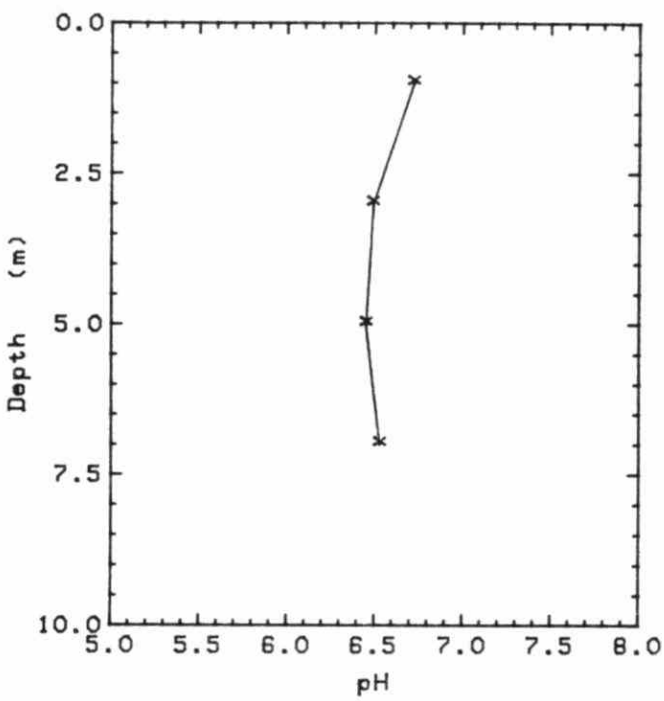



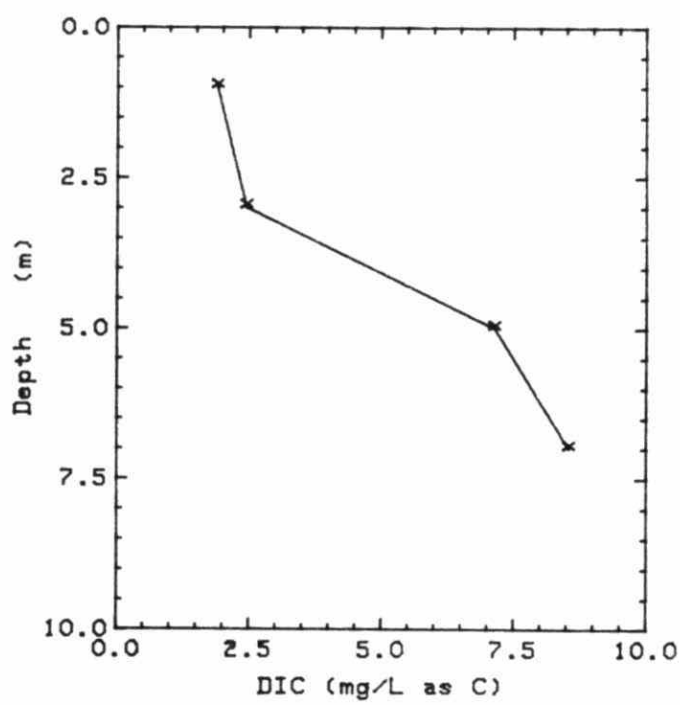



# BRANDY 81.08.25

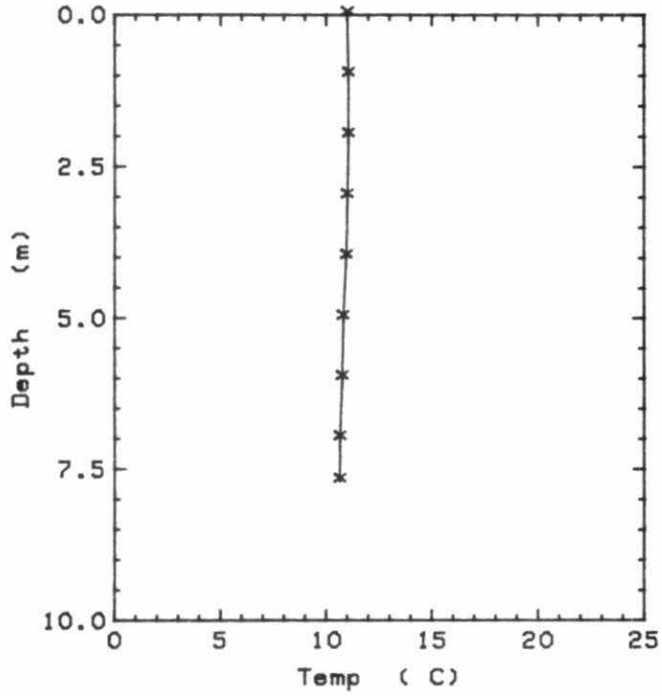


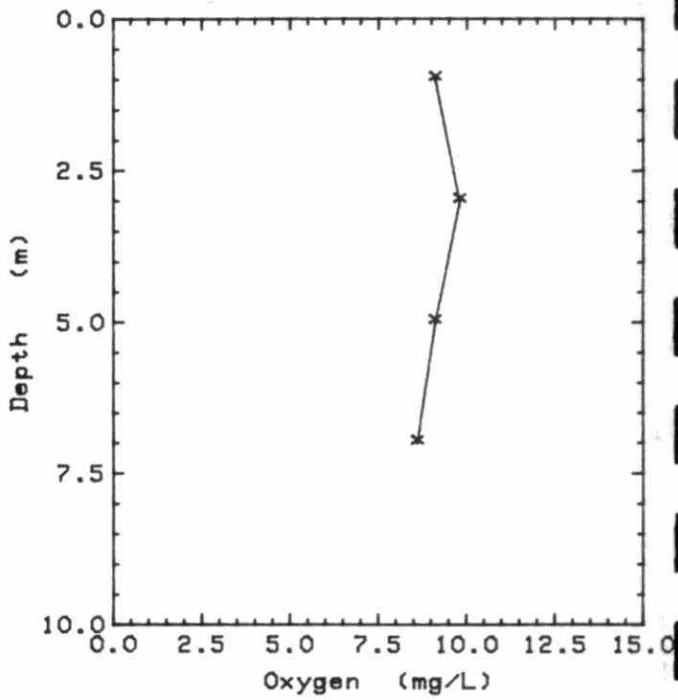



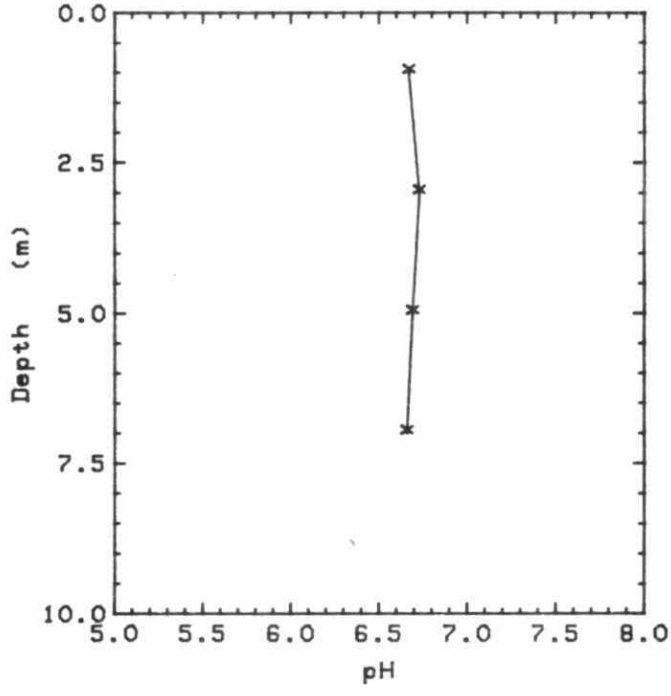



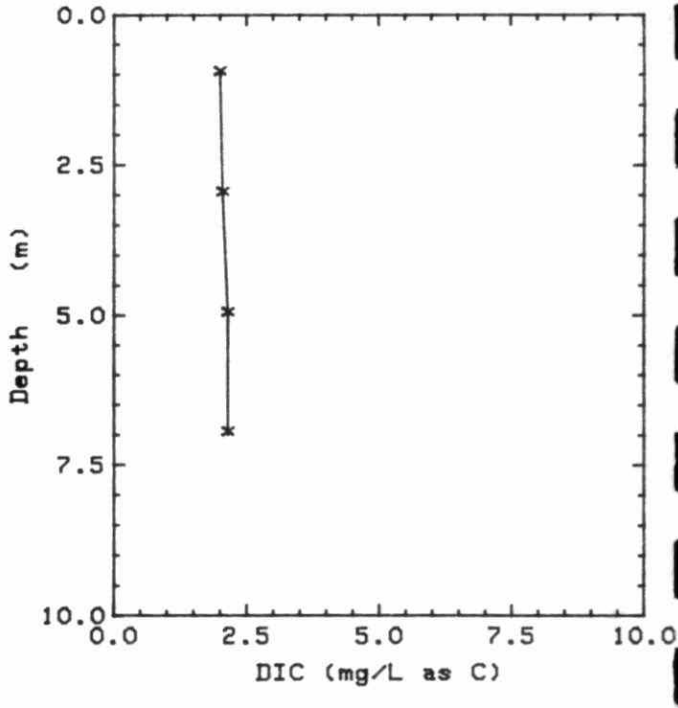



# BRANDY 81.10.05

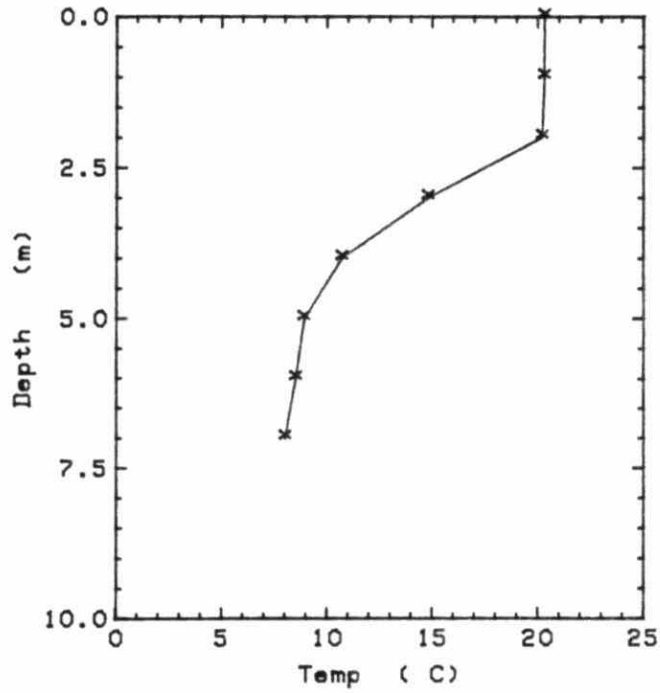


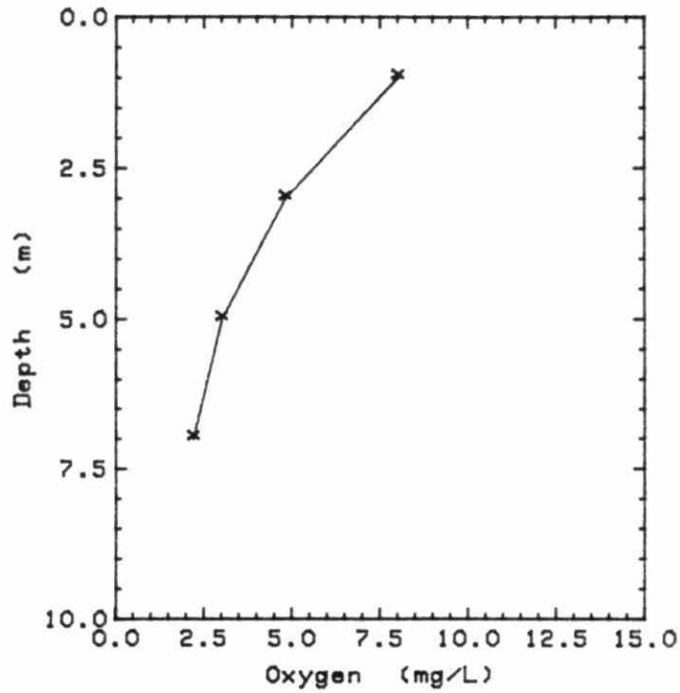



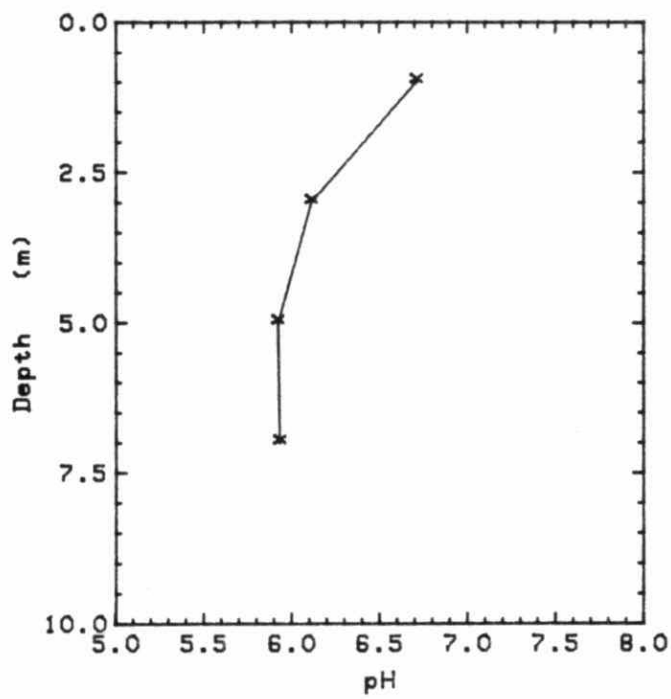



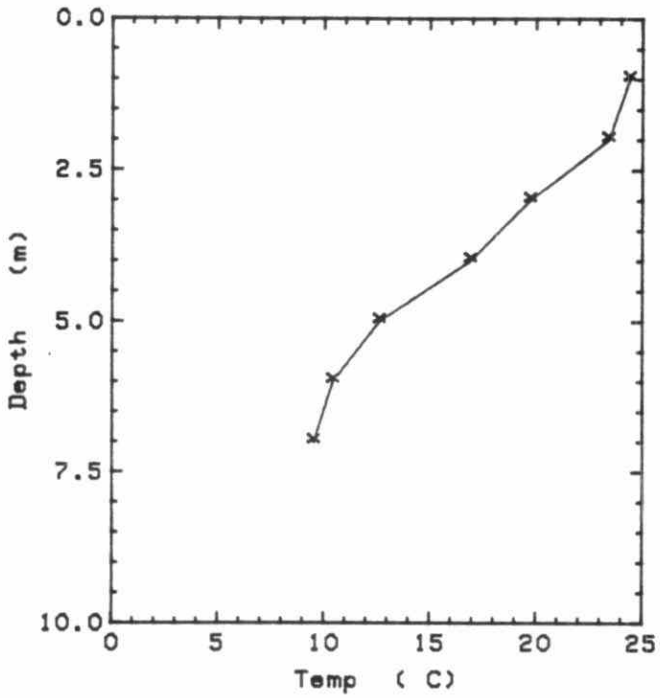
# BRANDY 82.06.15

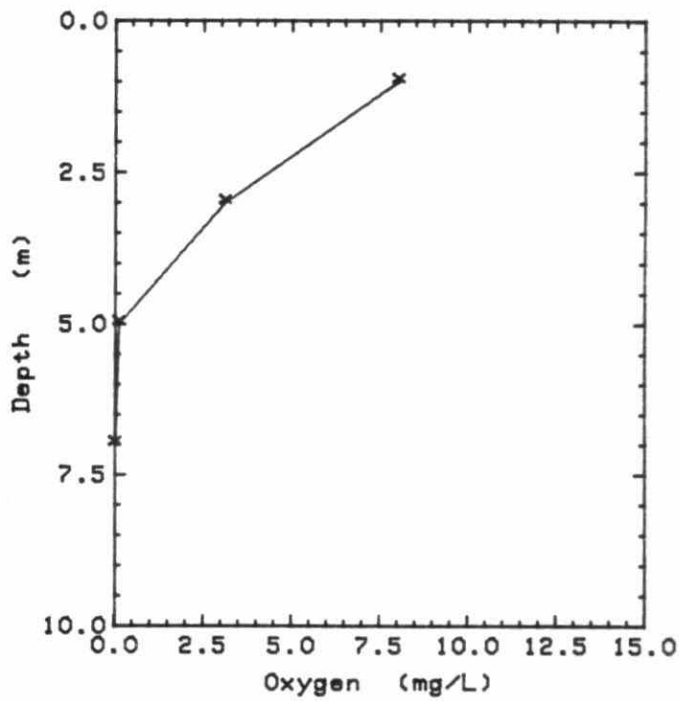


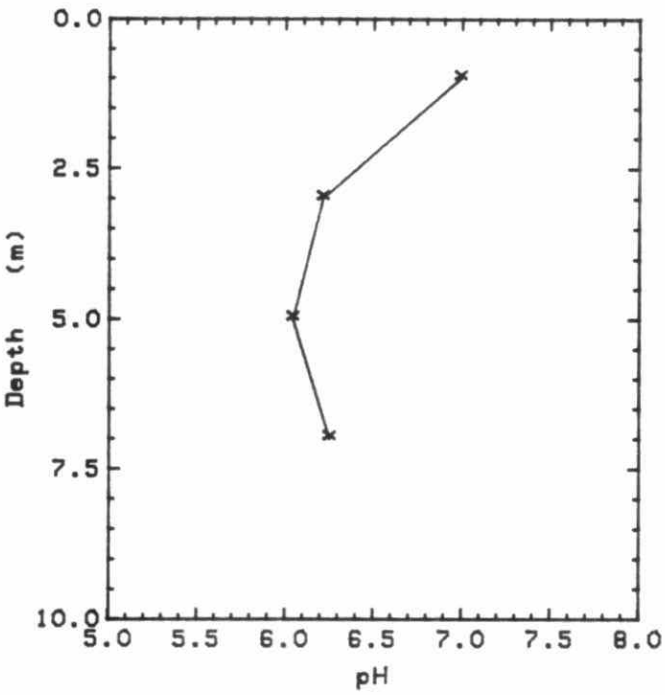



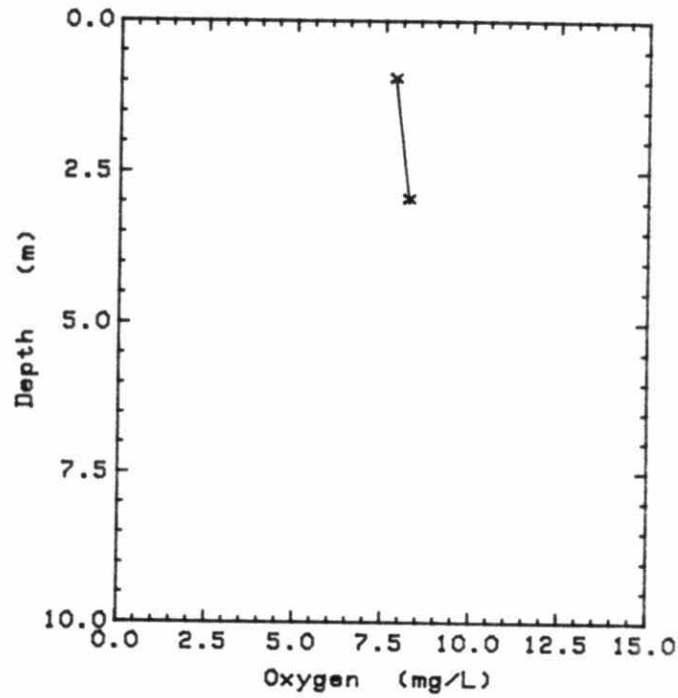
# BRANDY 82.07.21

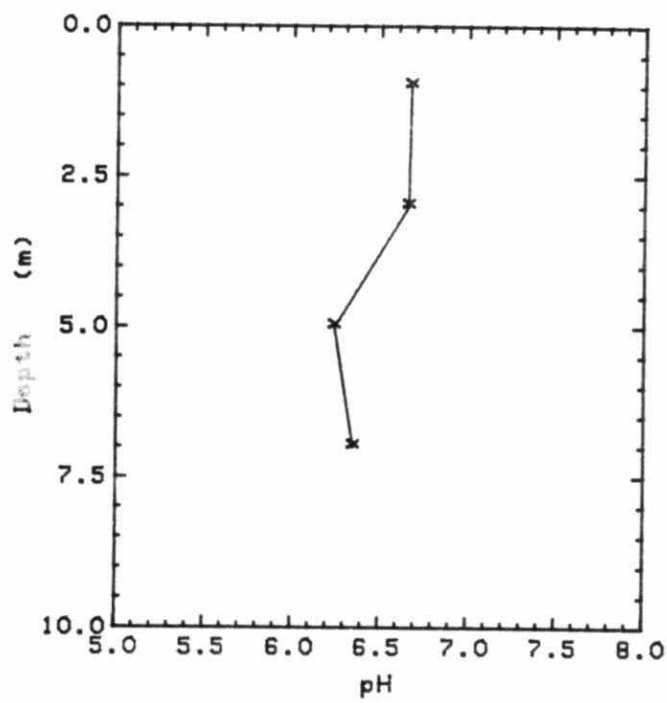


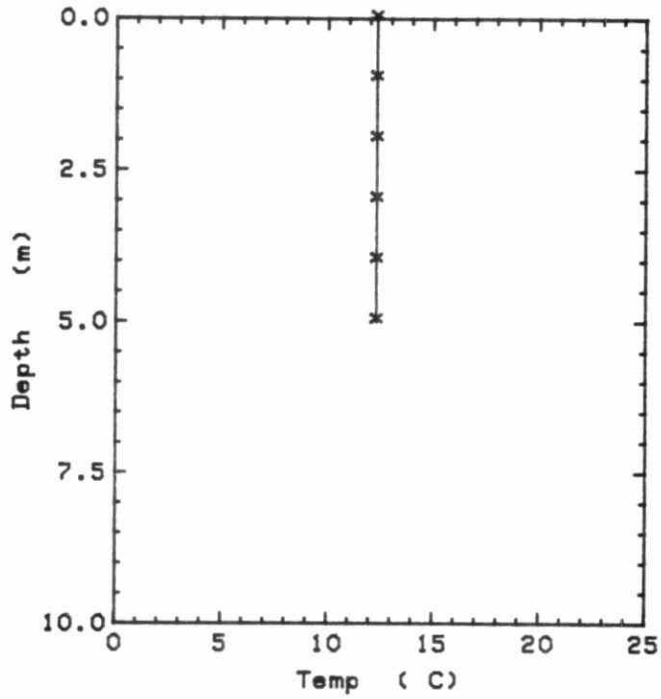



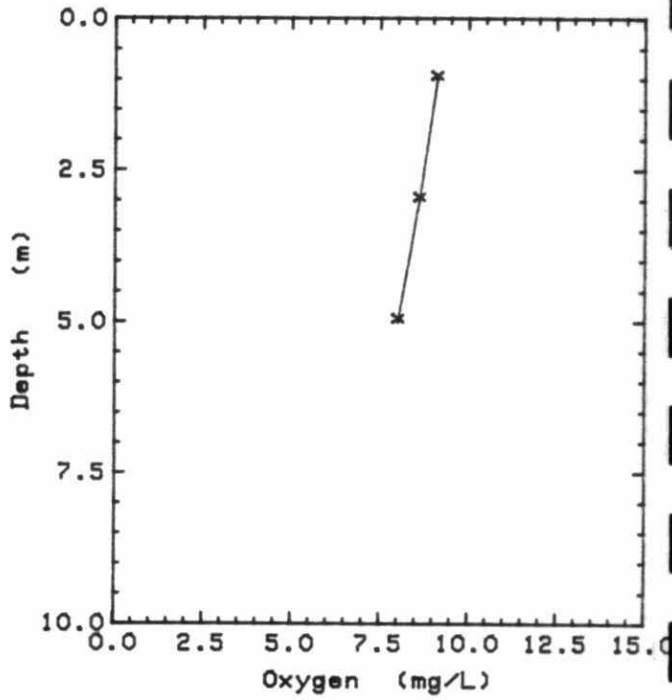
# BRANDY 82.08.10

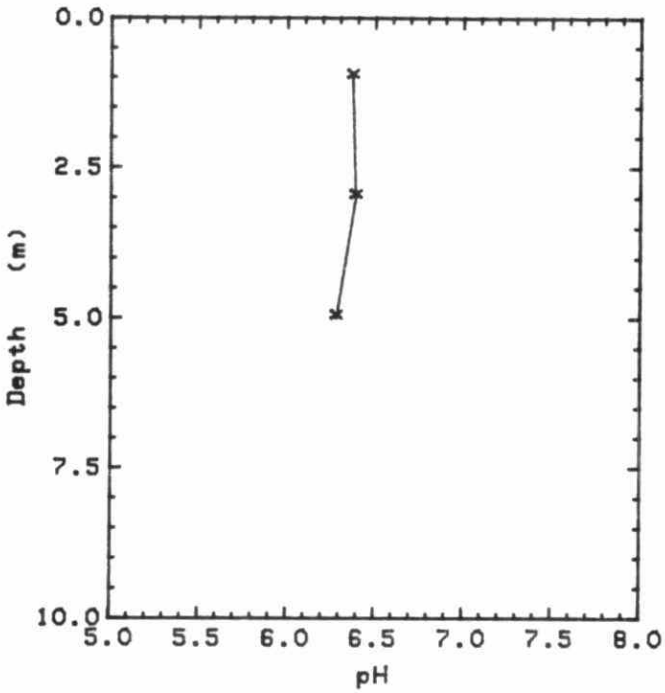


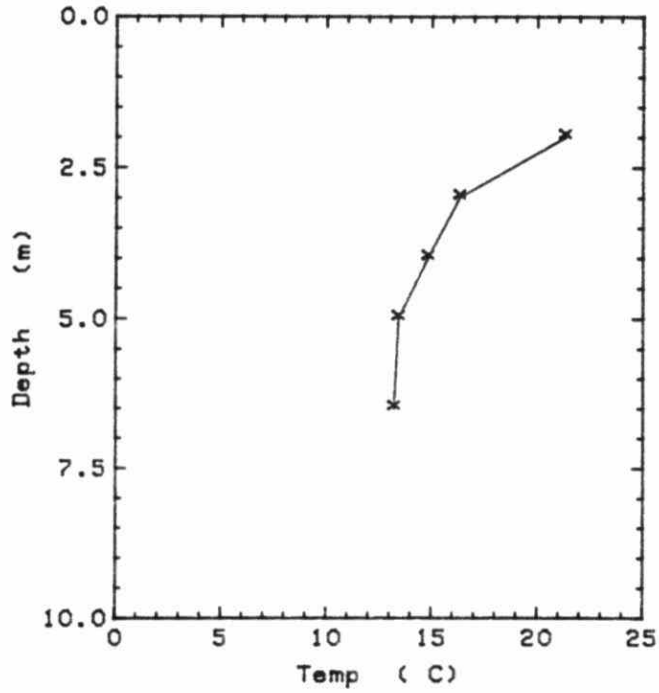
# BRANDY 83.05.26

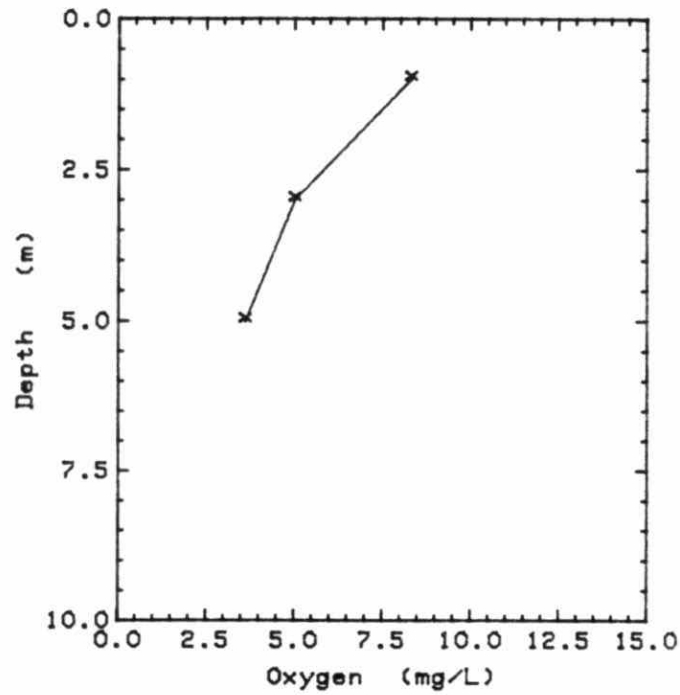


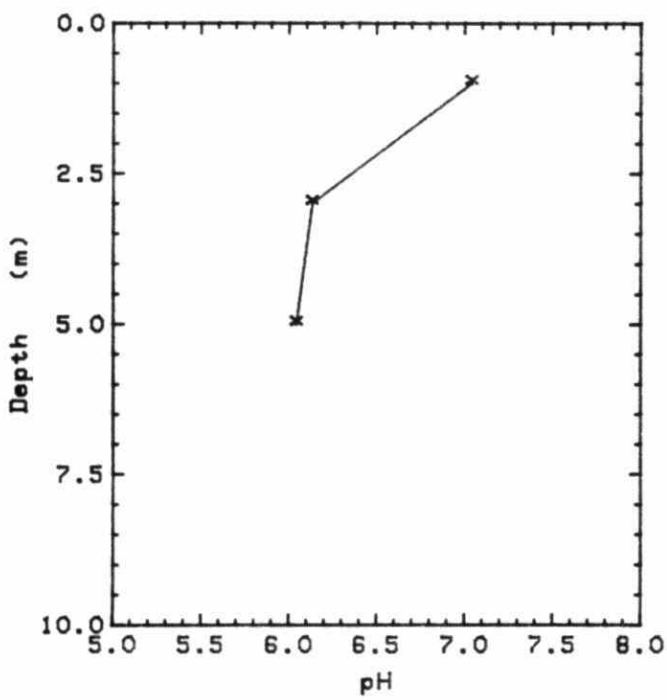



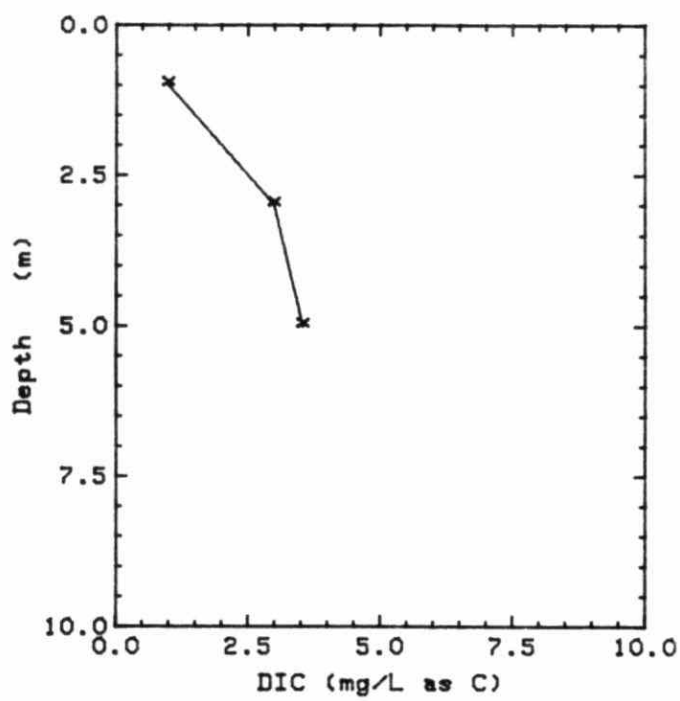



# BRANDY 83.06.21

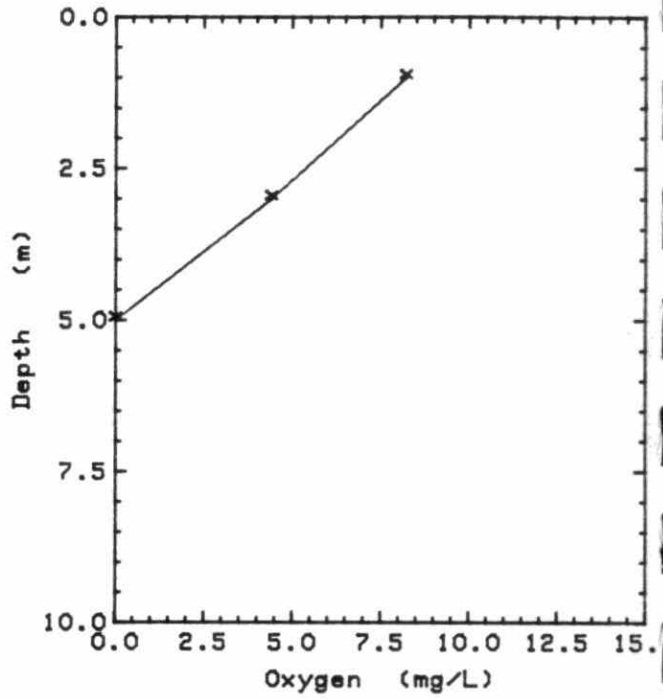


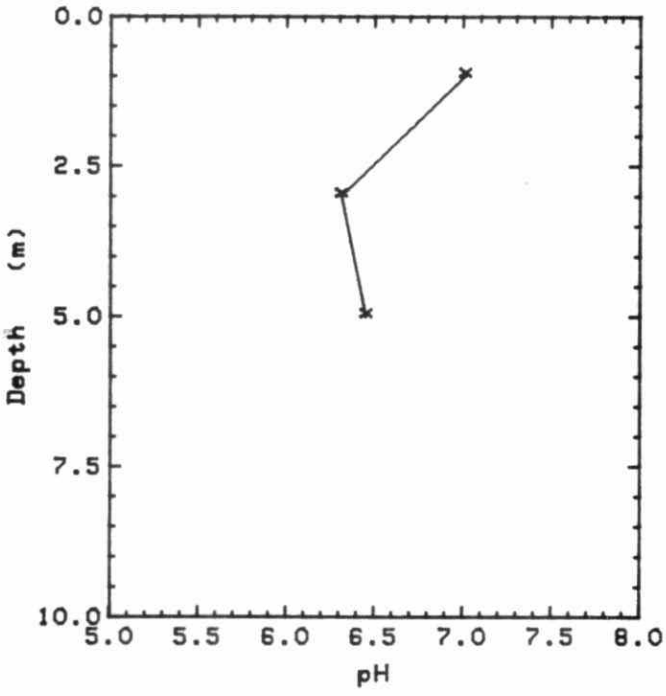



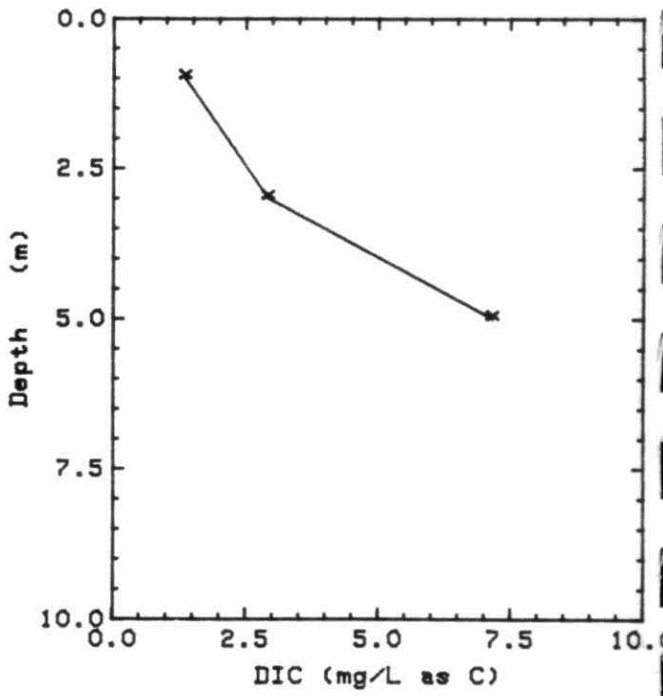



# BRANDY 83.09.01



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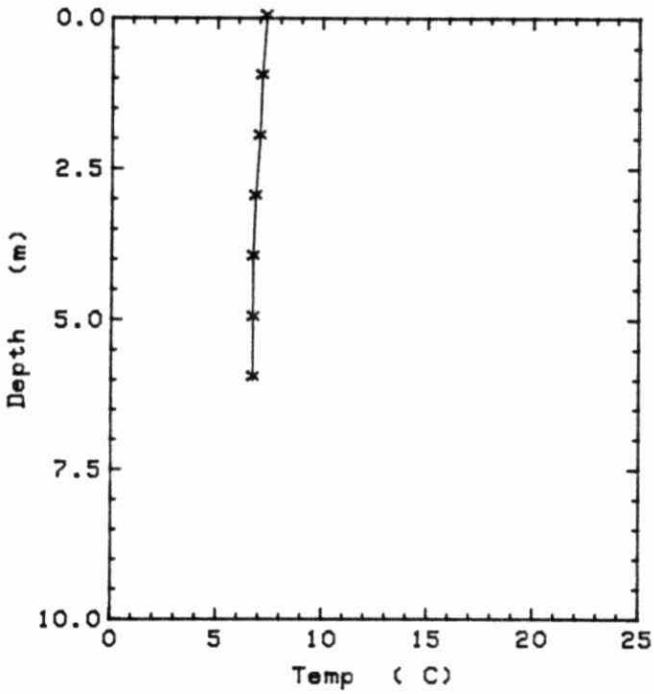
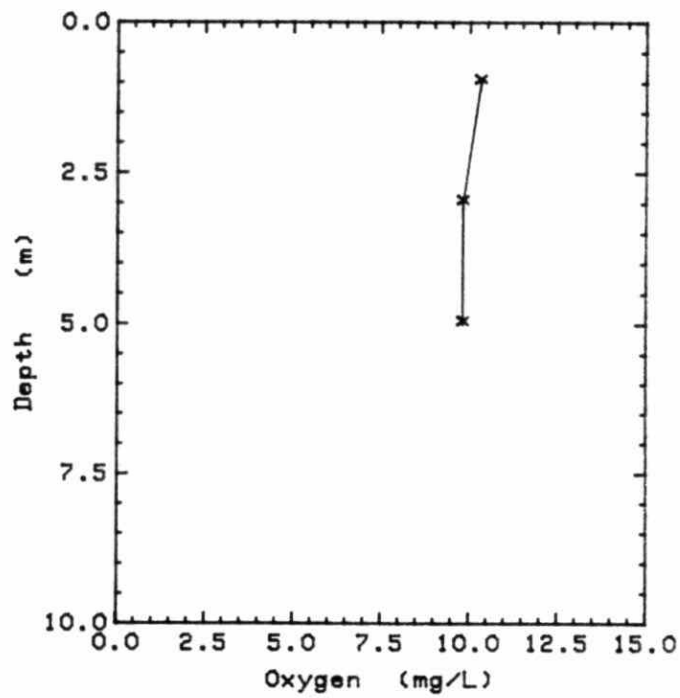
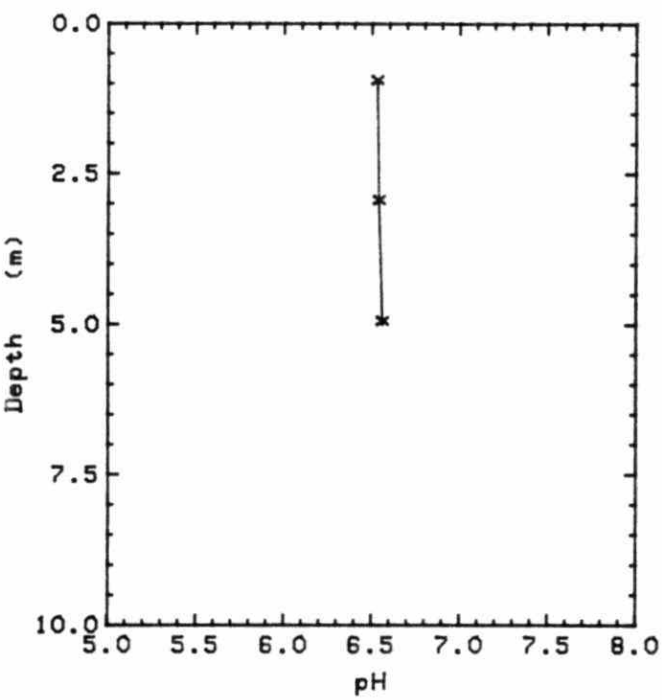
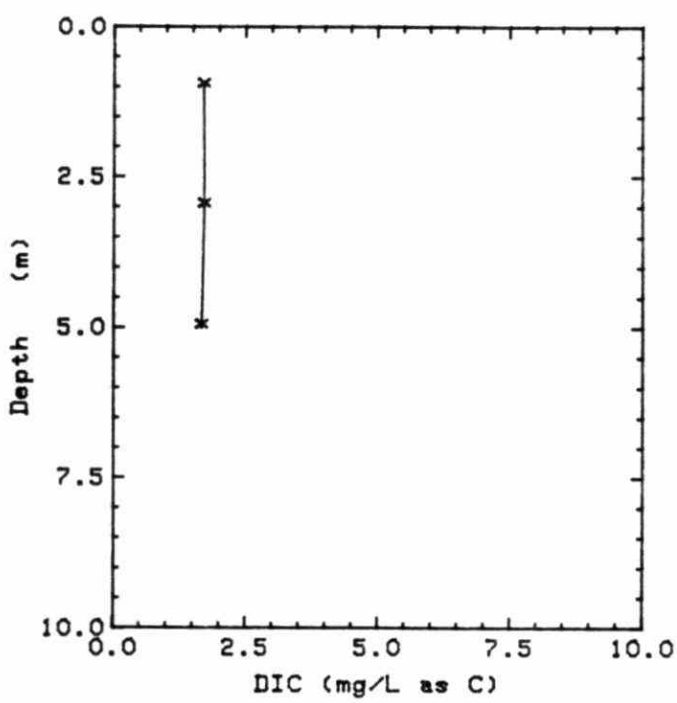
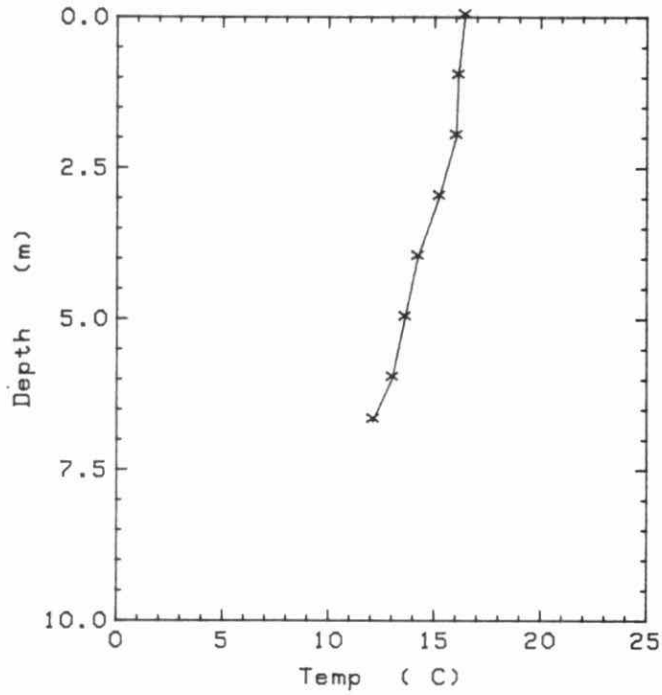


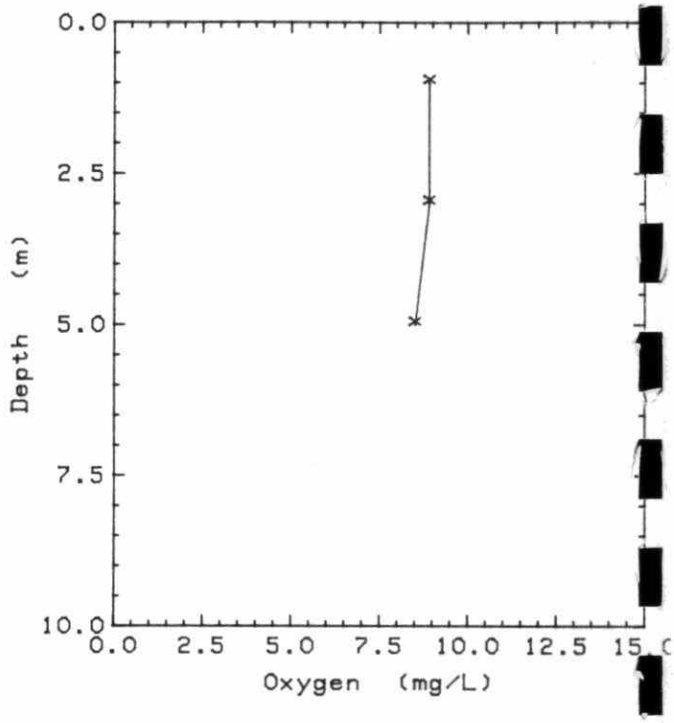



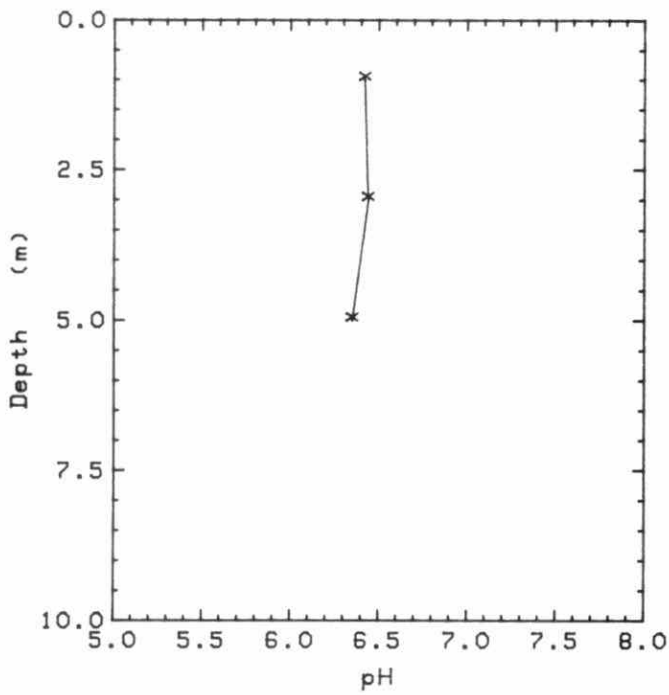



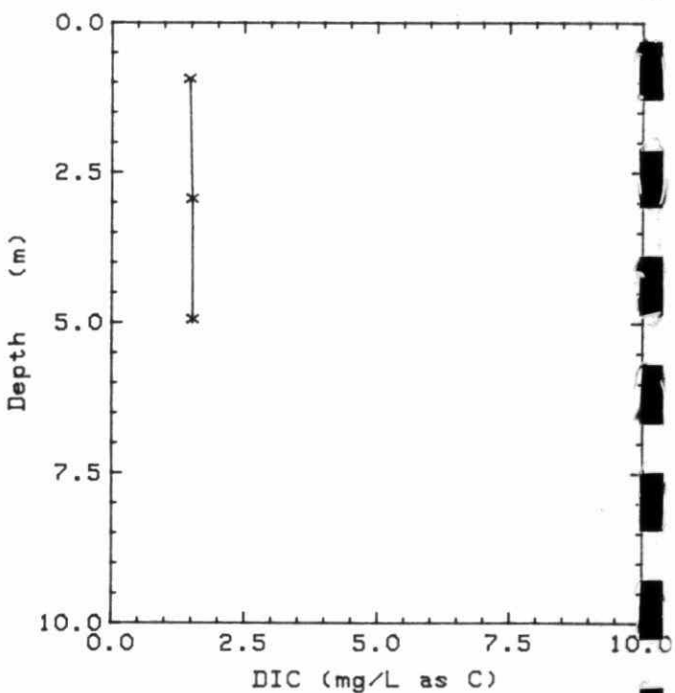



# BRANDY 84.05.24

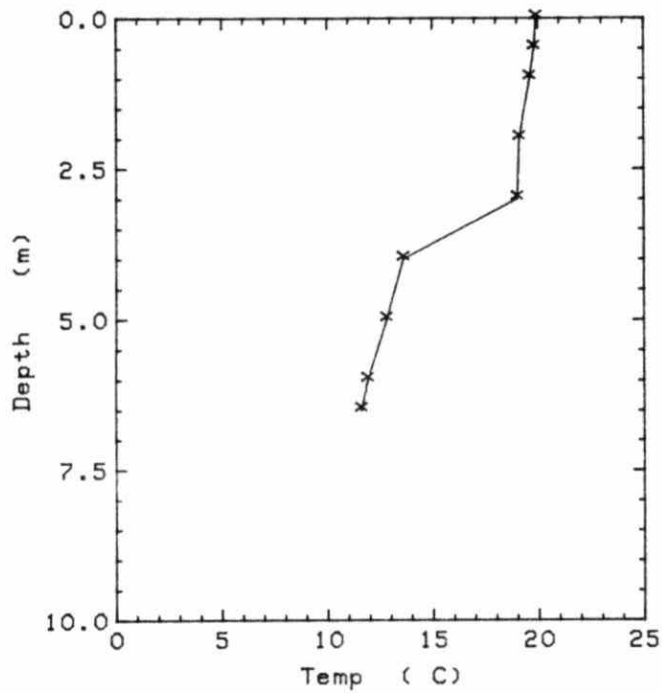


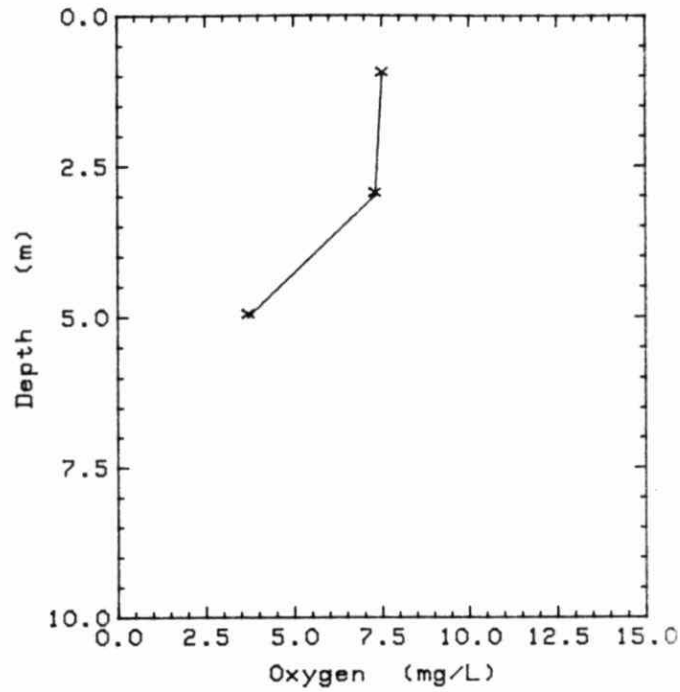



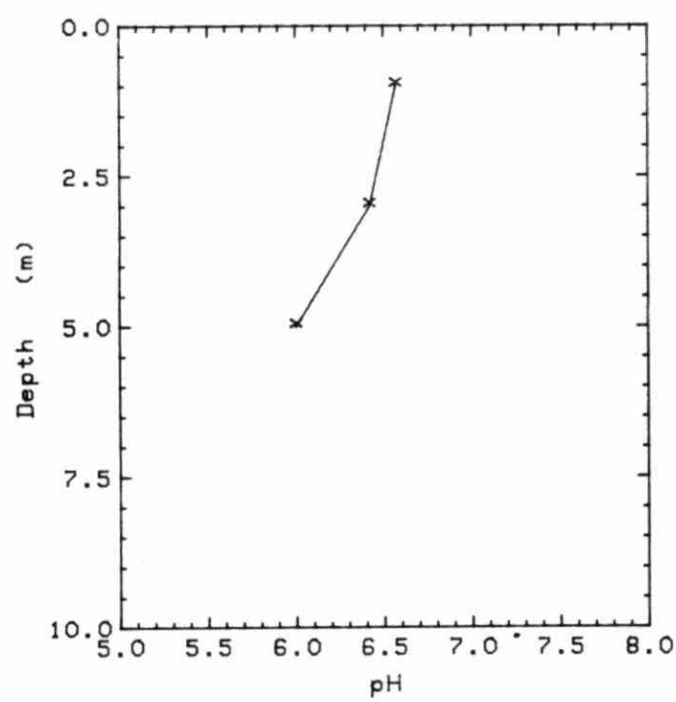



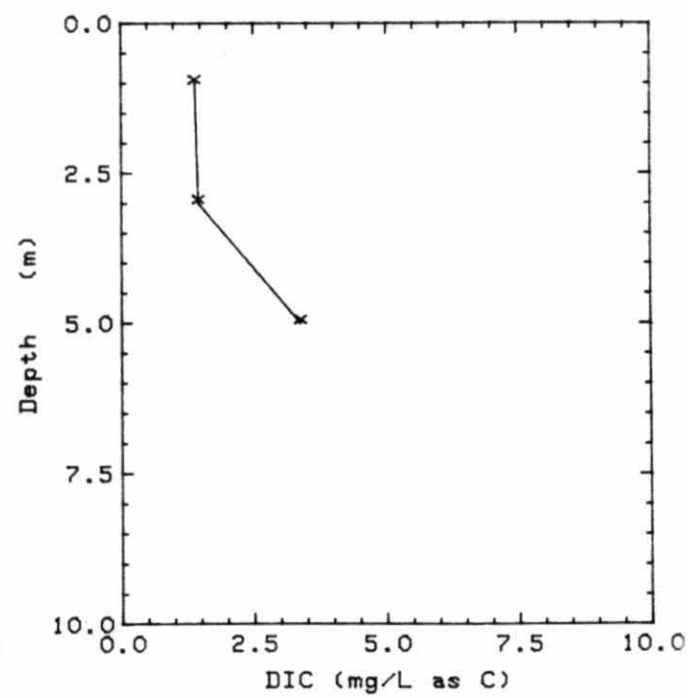



# BRANDY 84.06.19

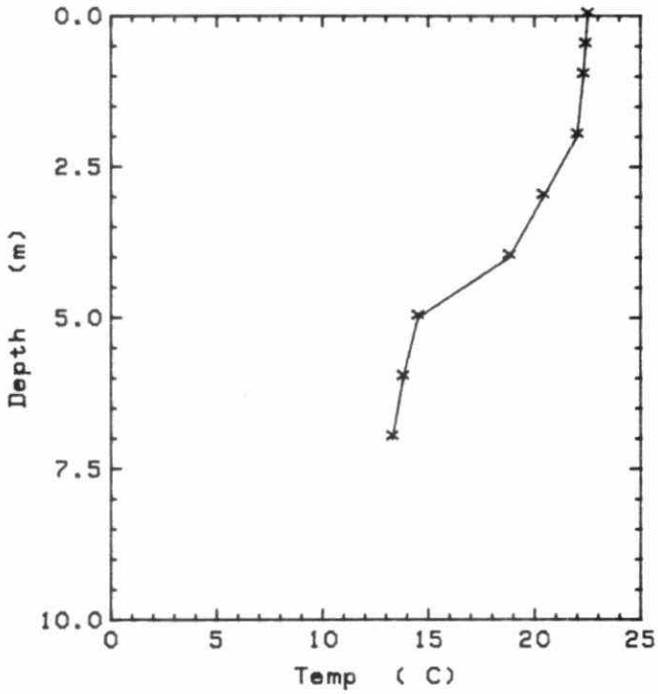


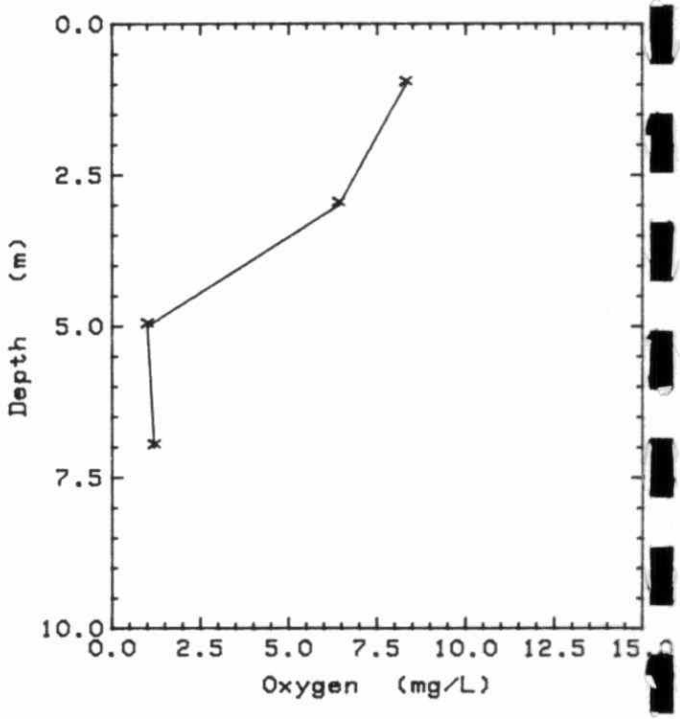



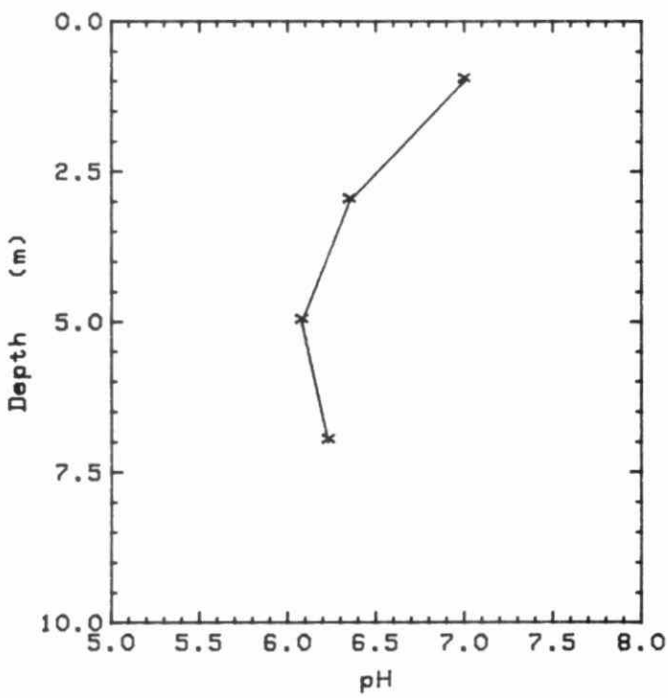



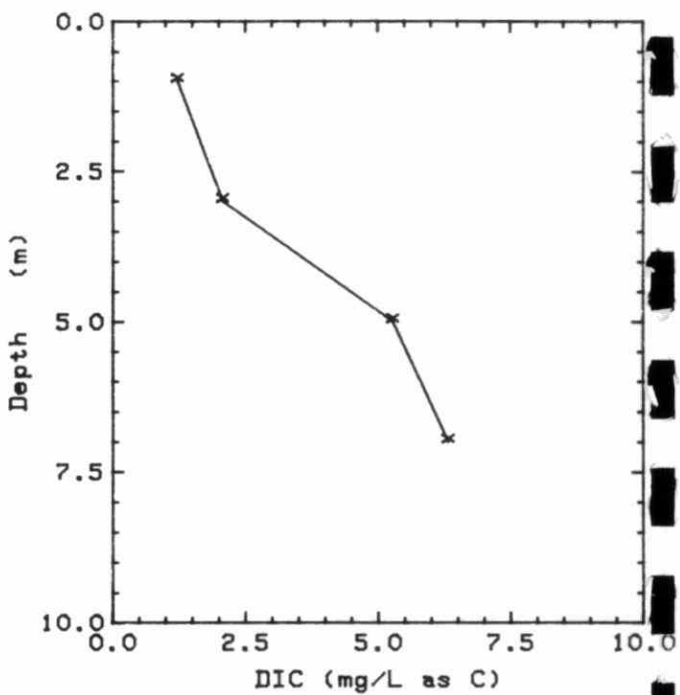



# BRANDY 84.08.02

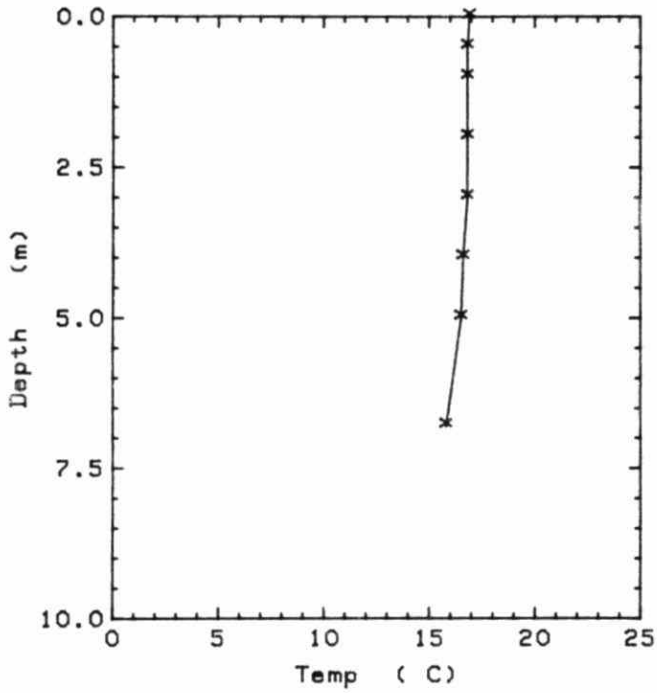


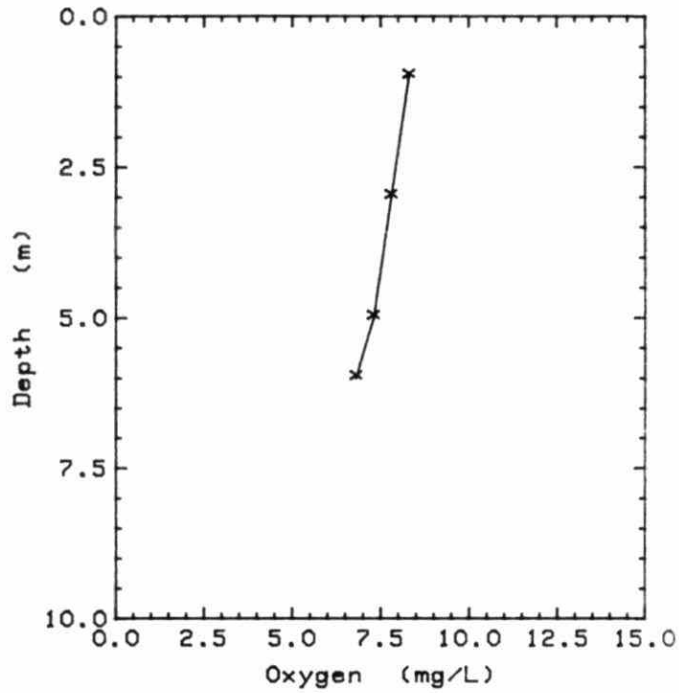



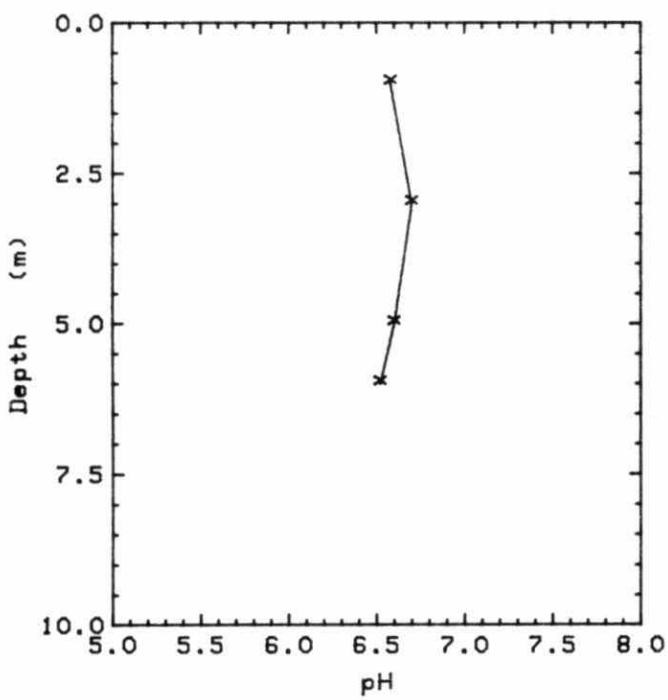



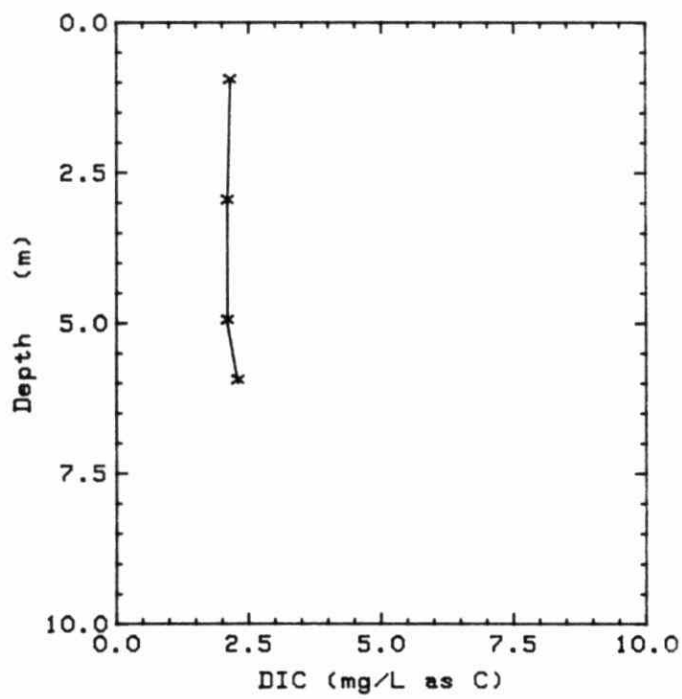



# BRANDY 84.09.20

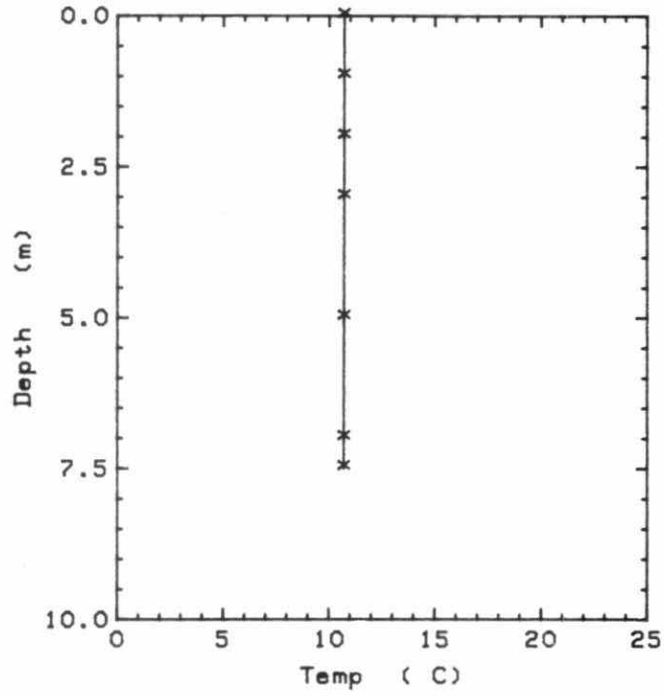


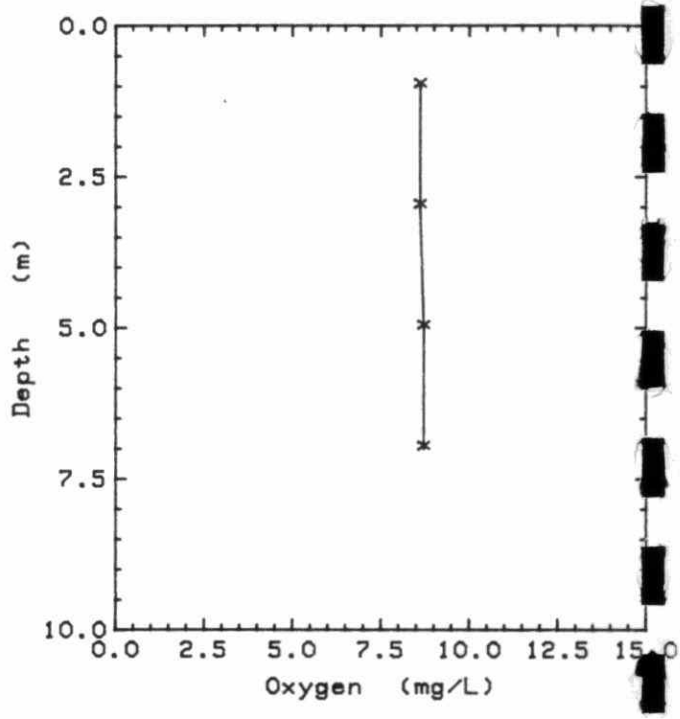



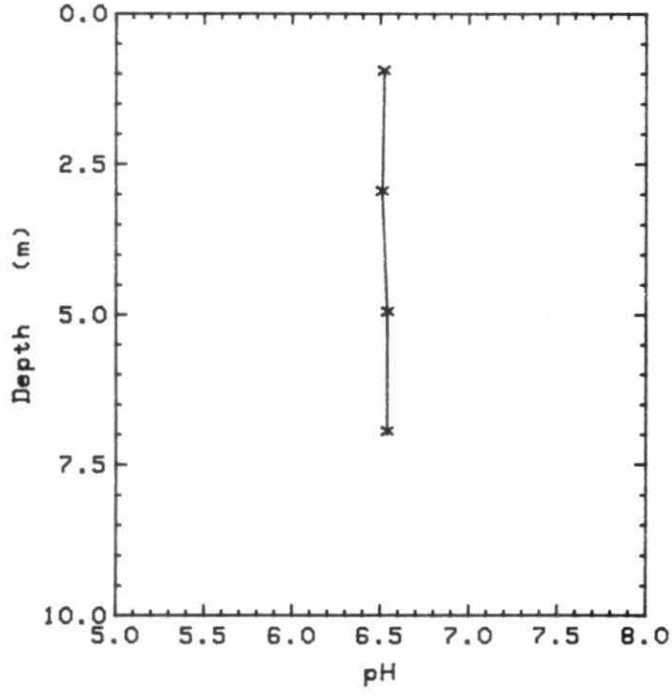



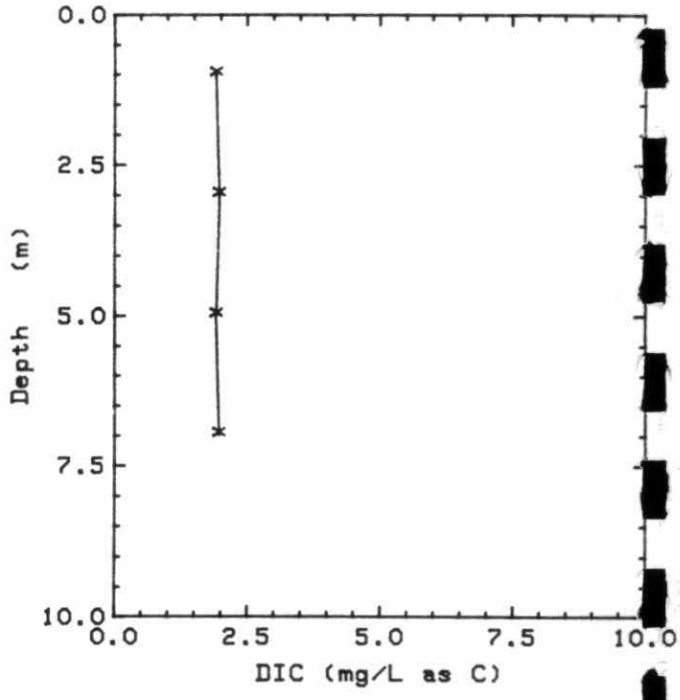



# BRANDY 84.10.30

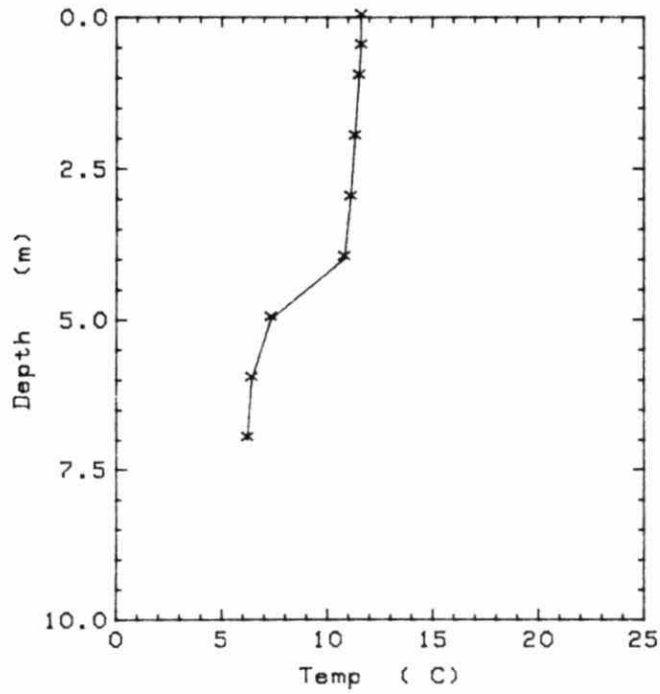


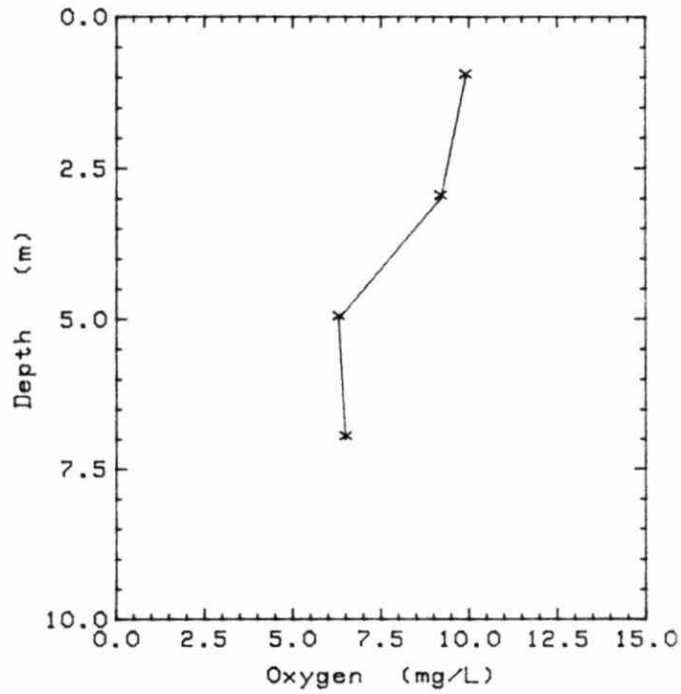



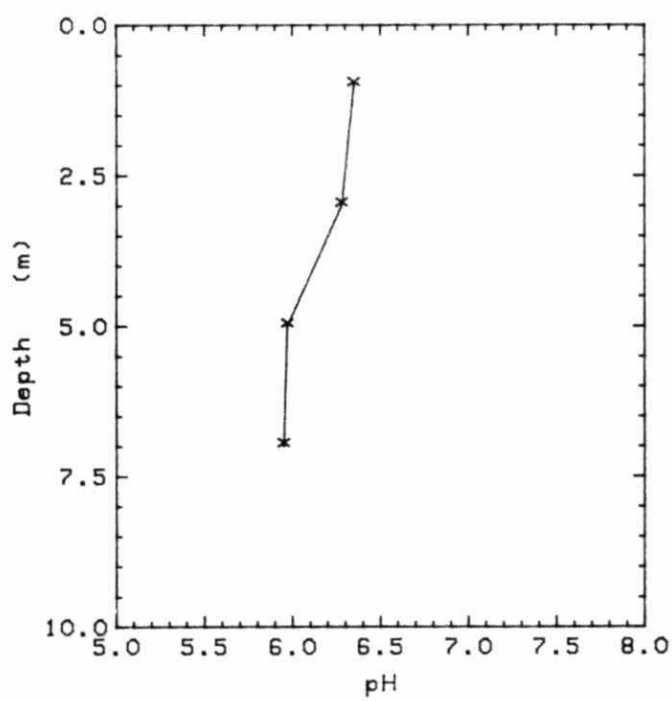



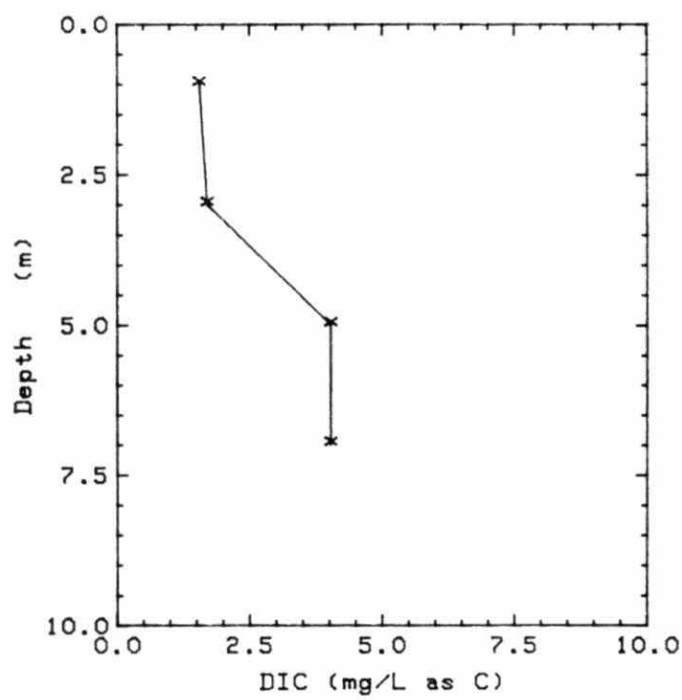



# BRANDY 85.05.07



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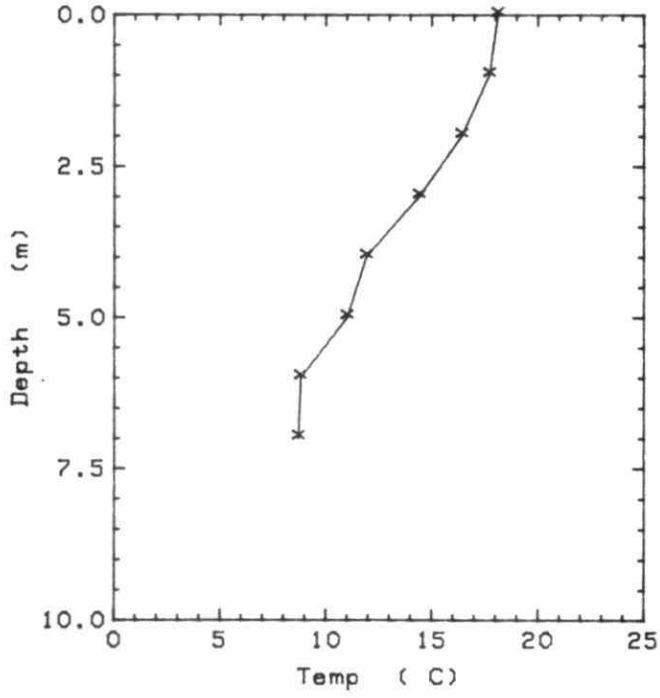


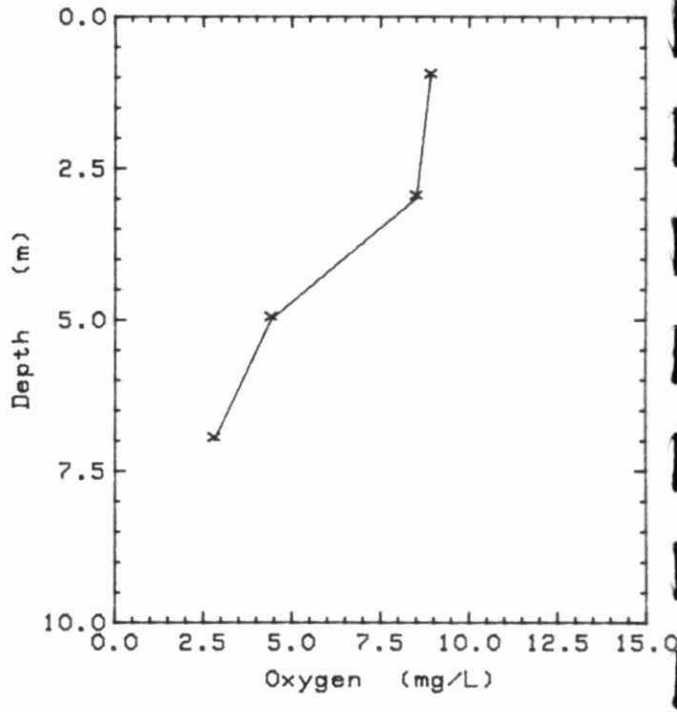


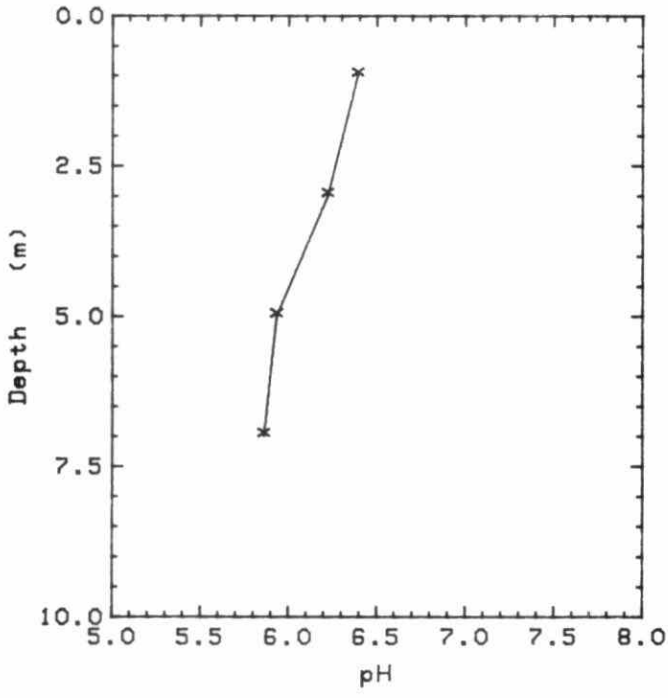


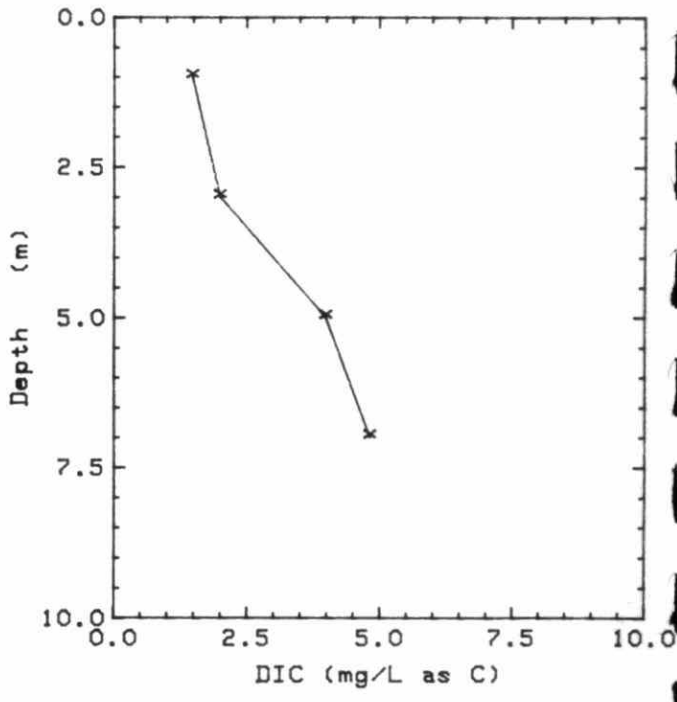

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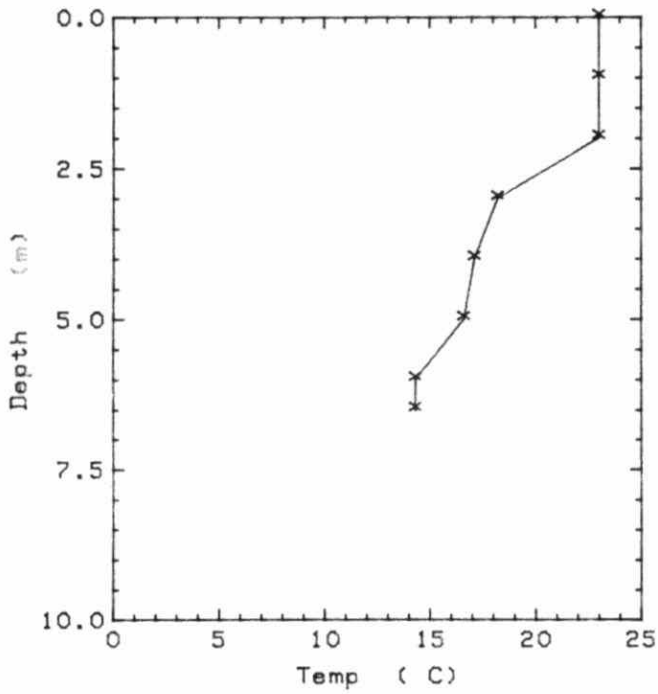


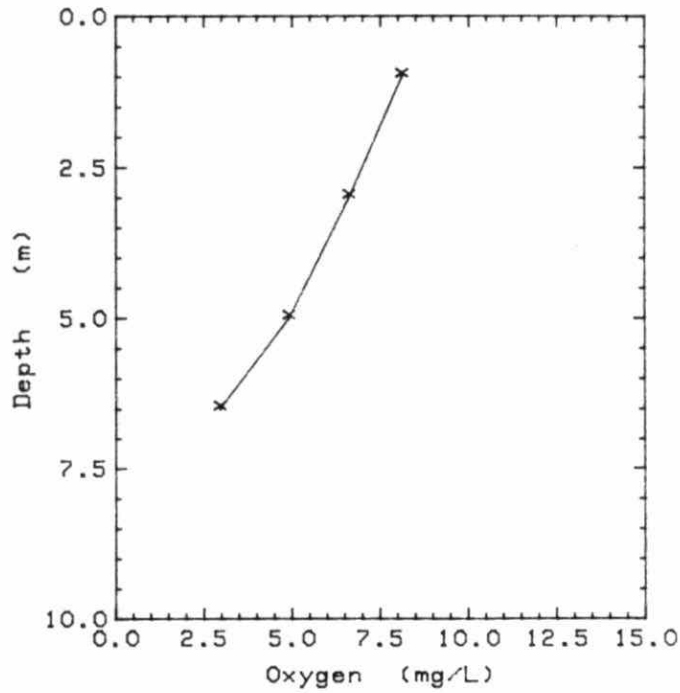


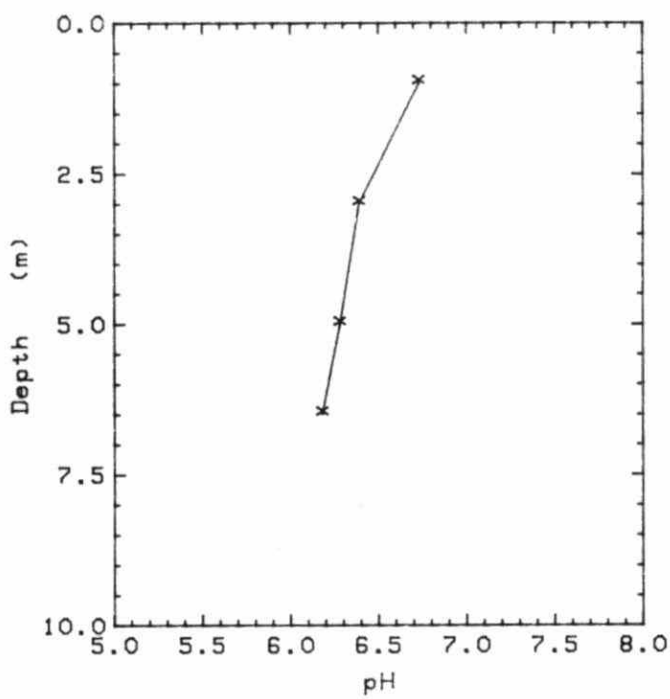


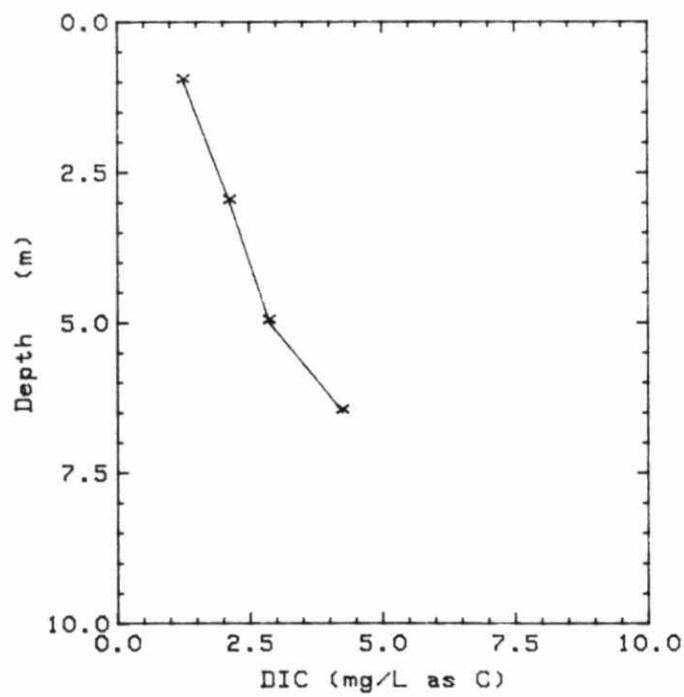

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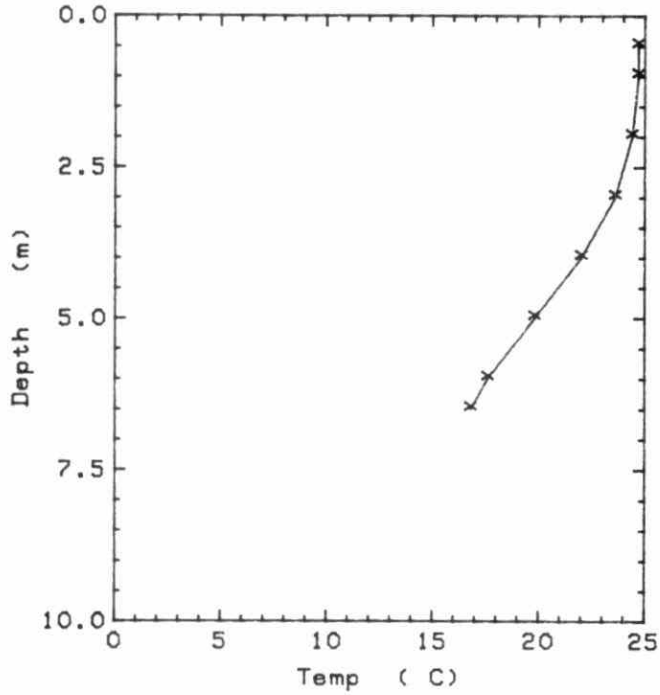
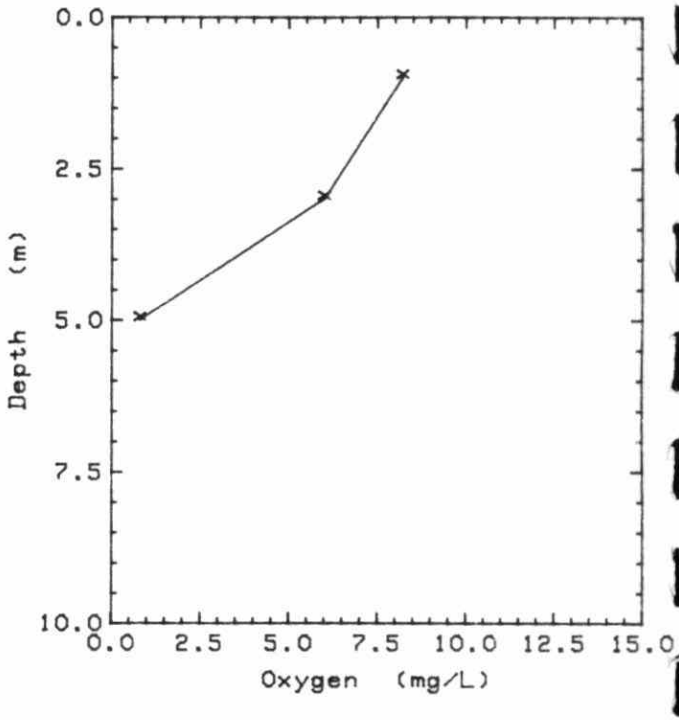
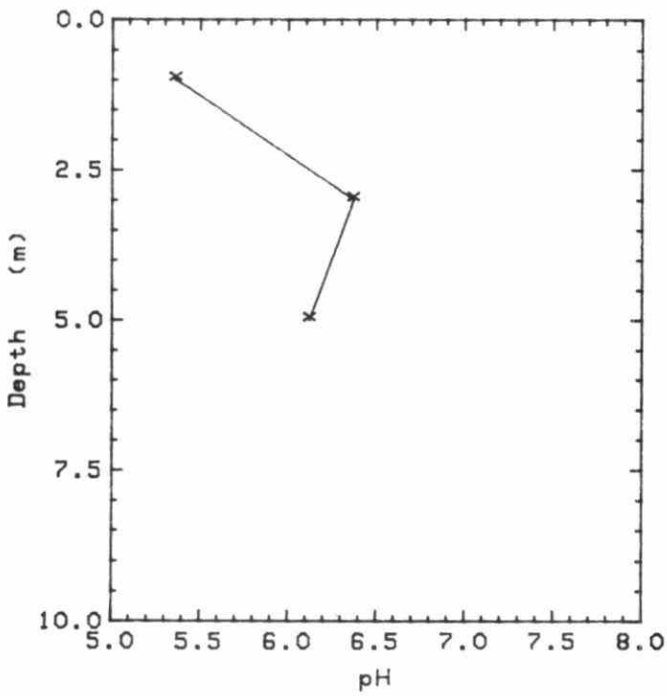
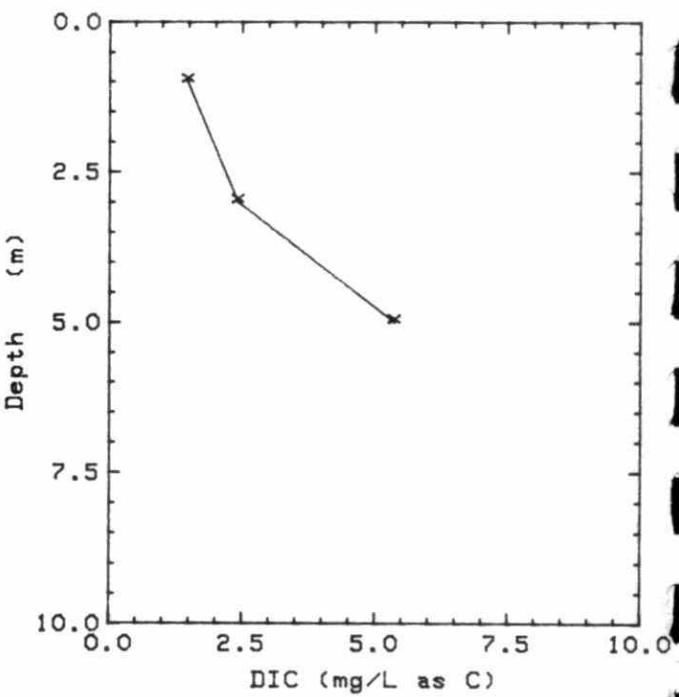
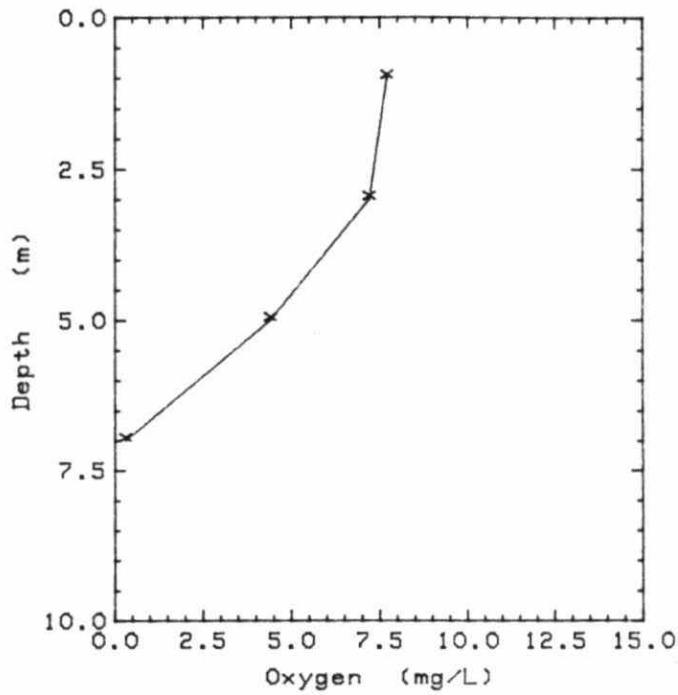


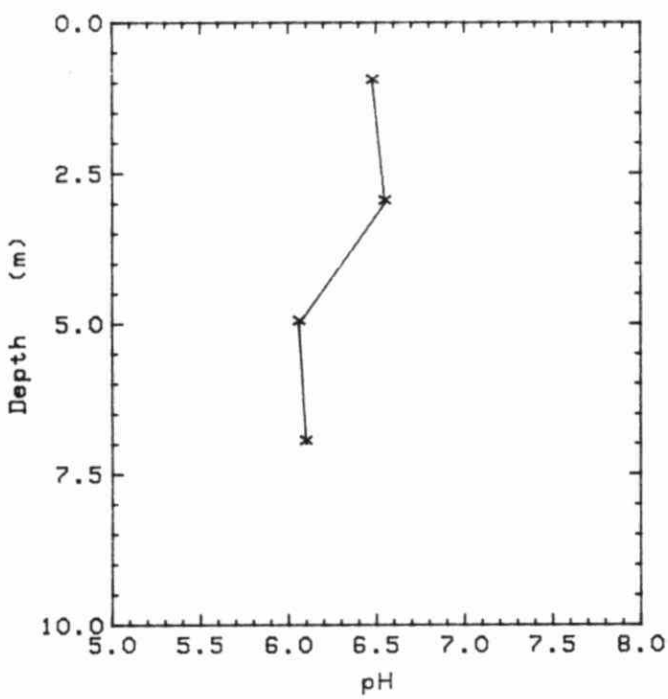



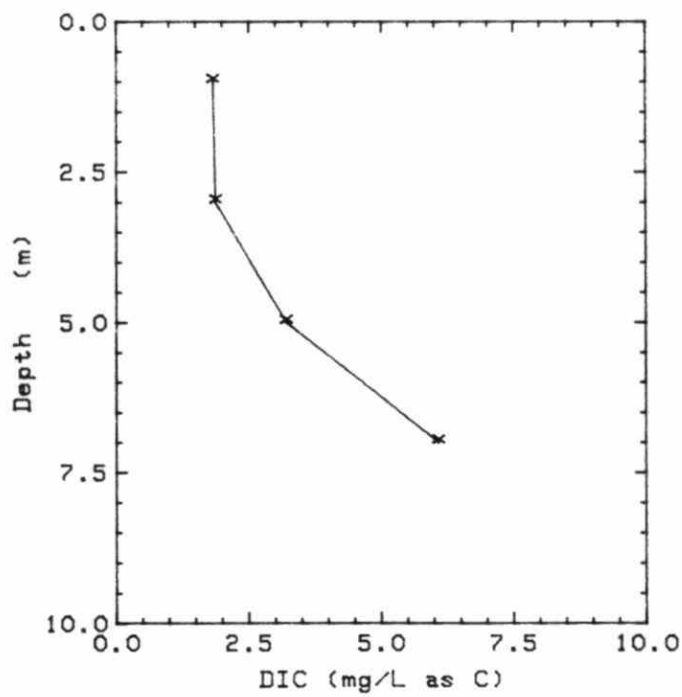



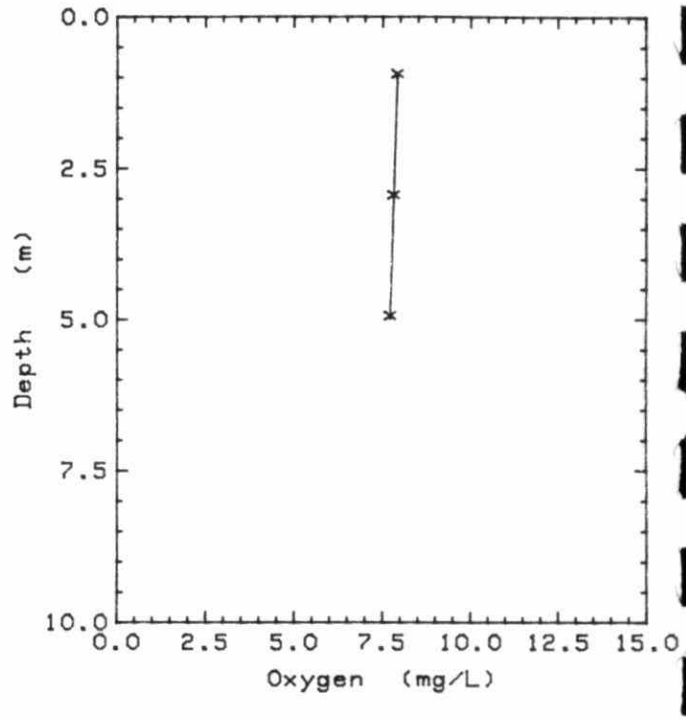
# BRANDY 85.09.04

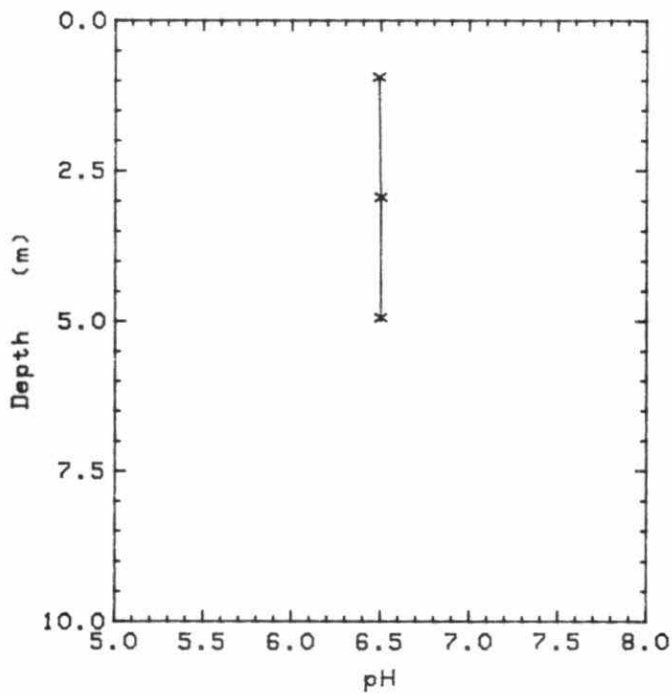


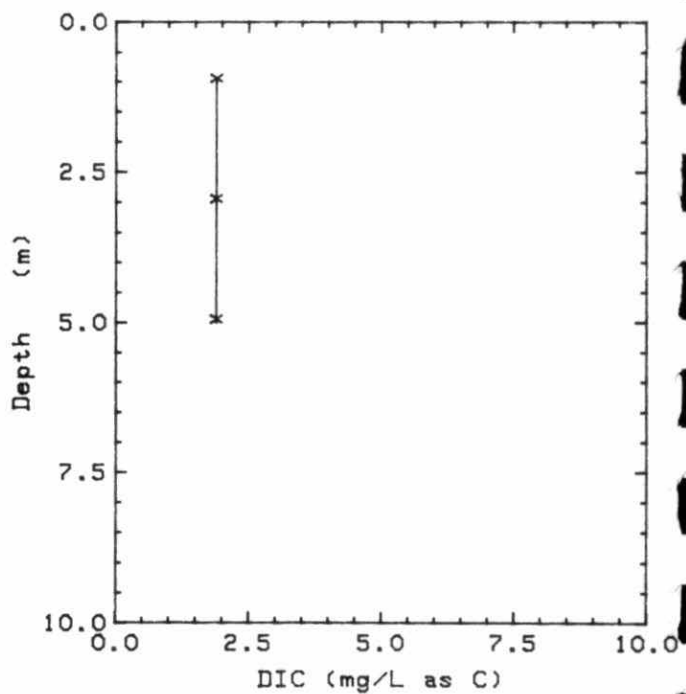



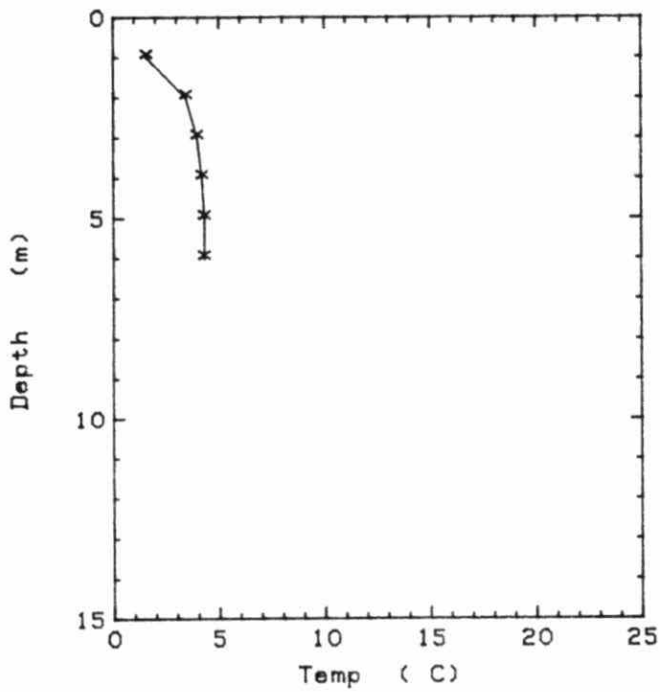
# BRANDY 85.10.10



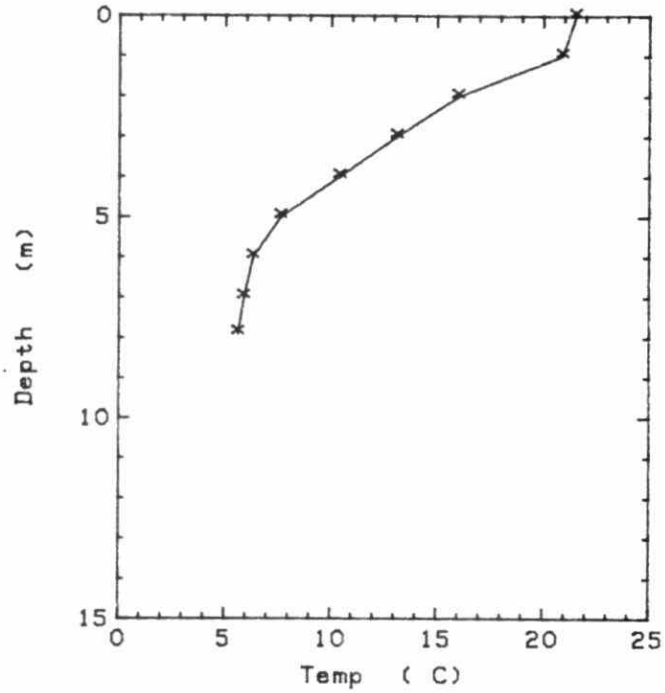



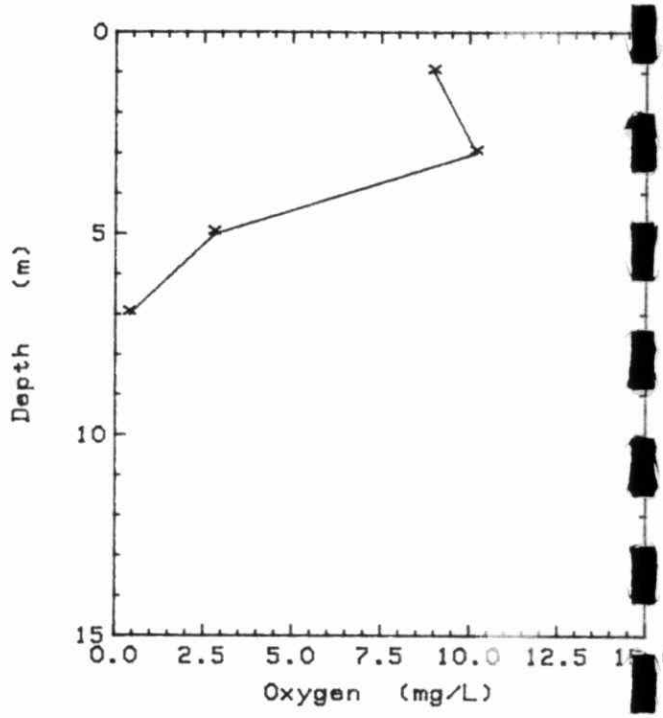



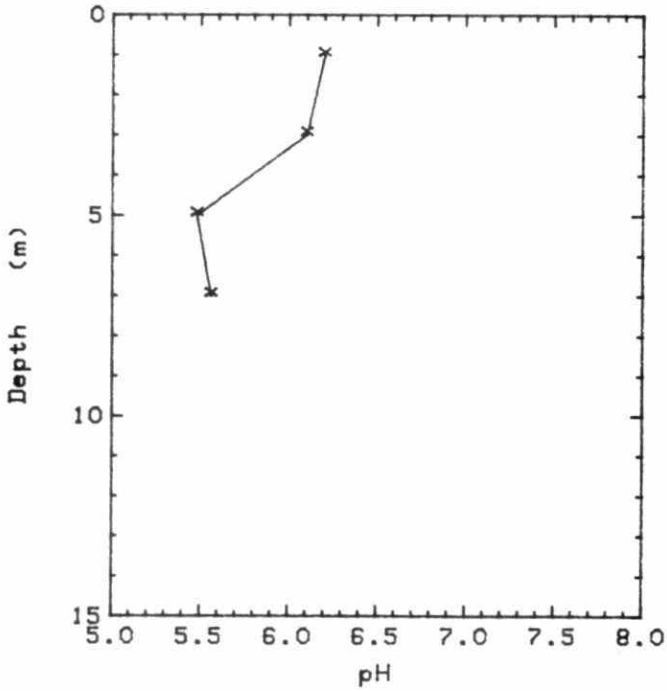
# CINDER 79.02.07



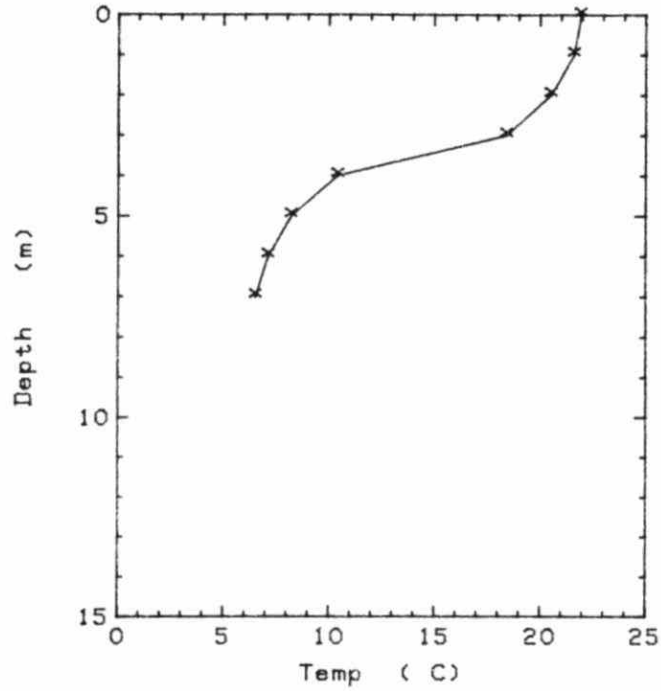
# CINDER 79.06.04

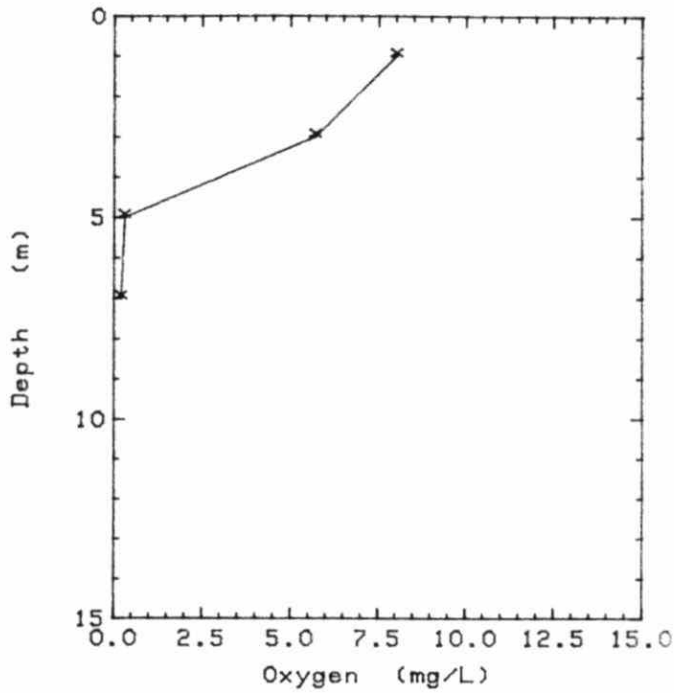


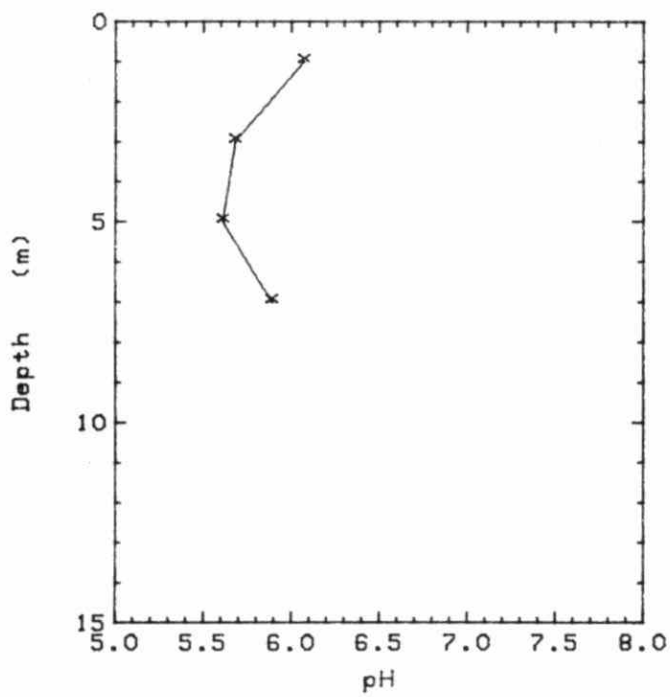



# CINDER 79.07.09



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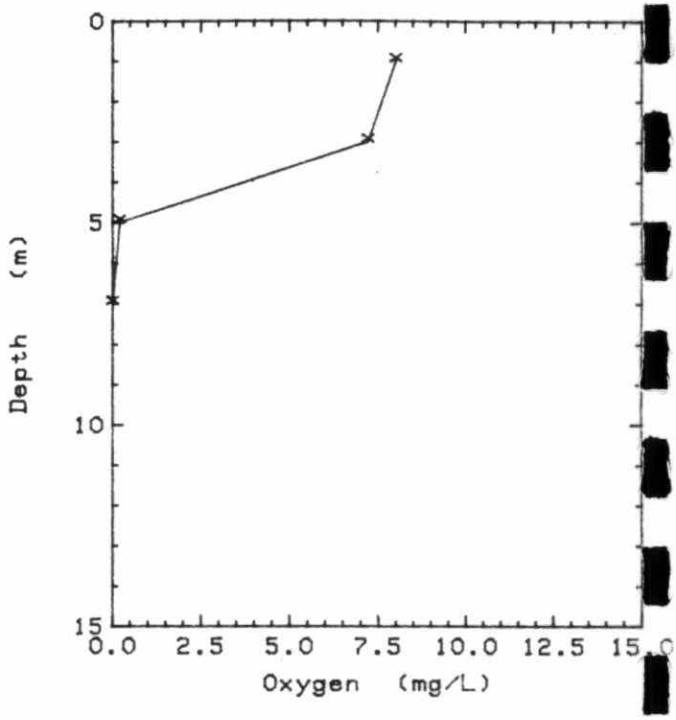


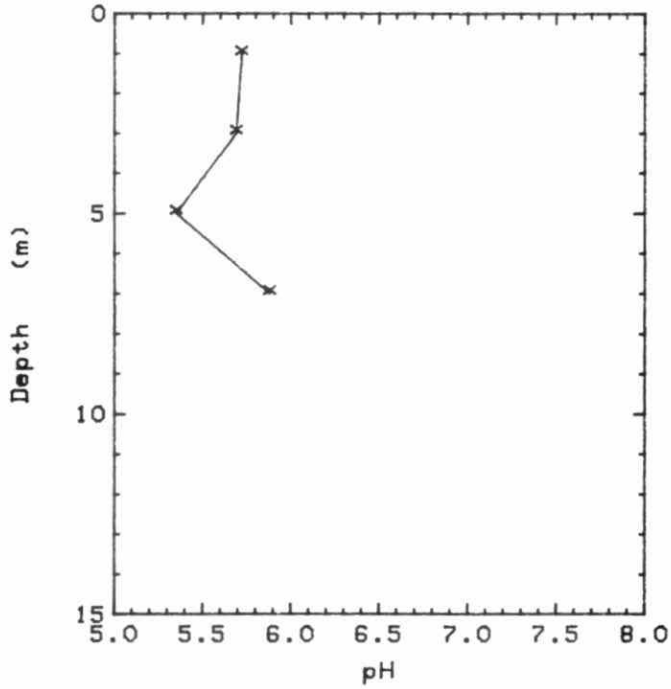

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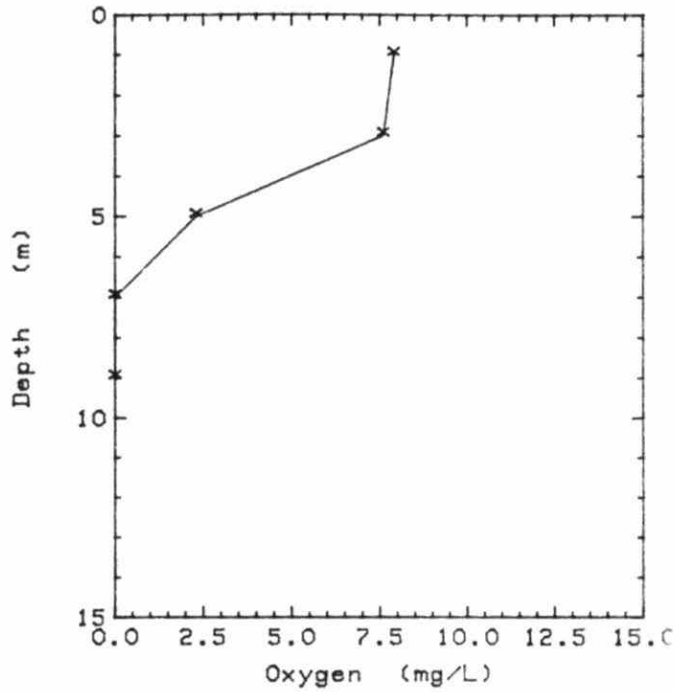


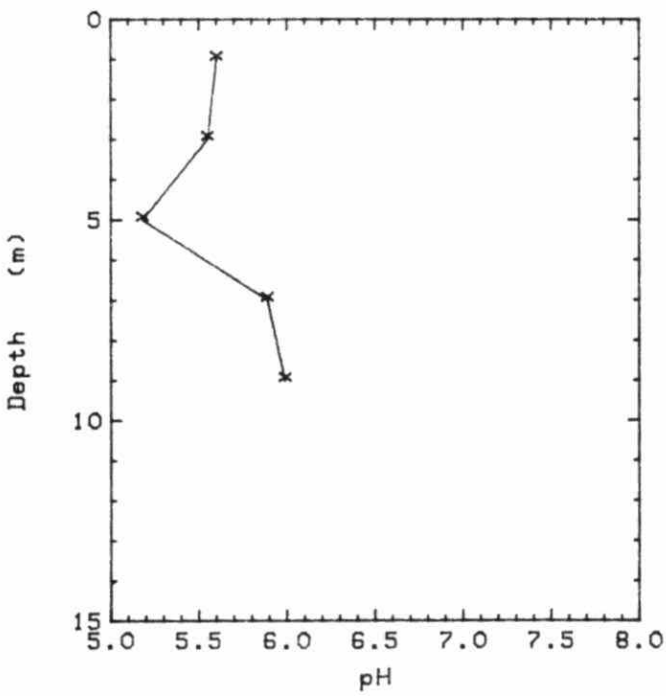

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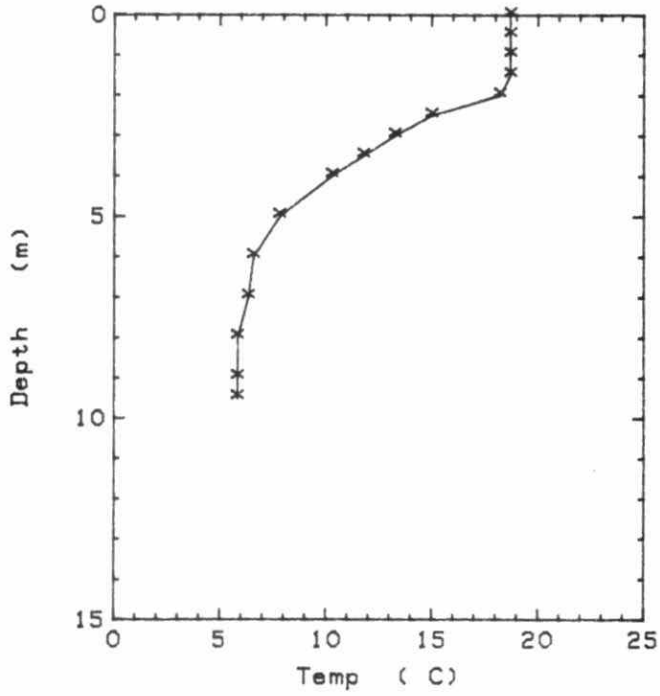
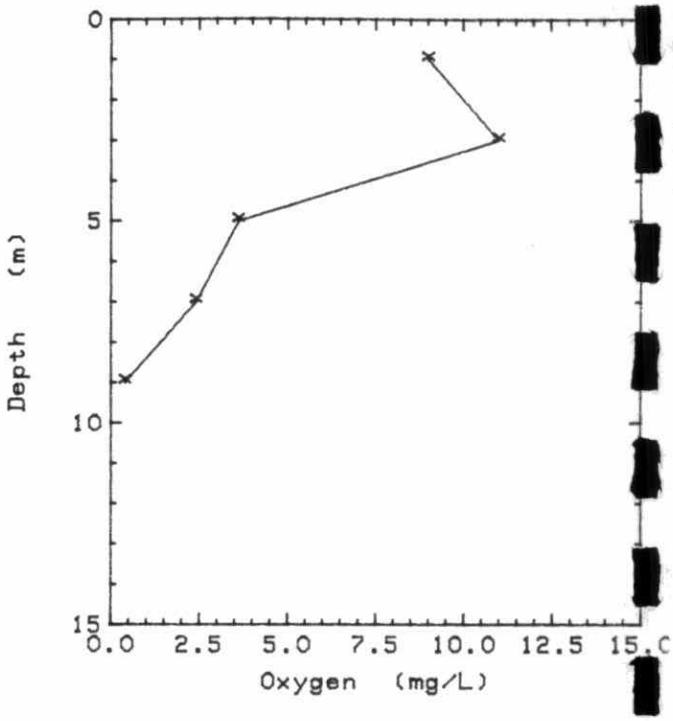
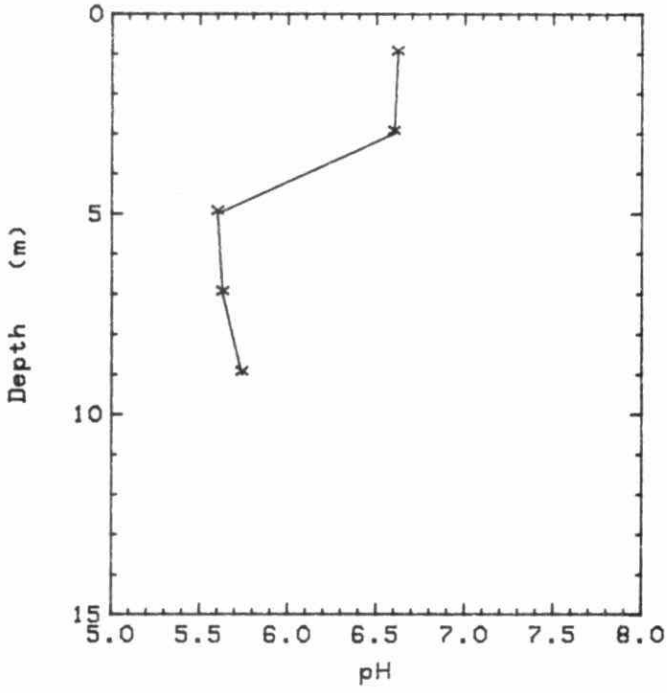
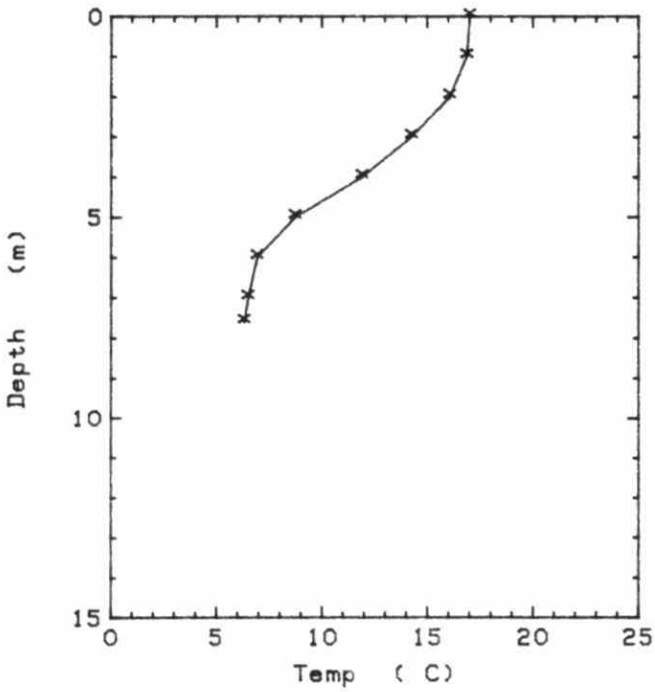
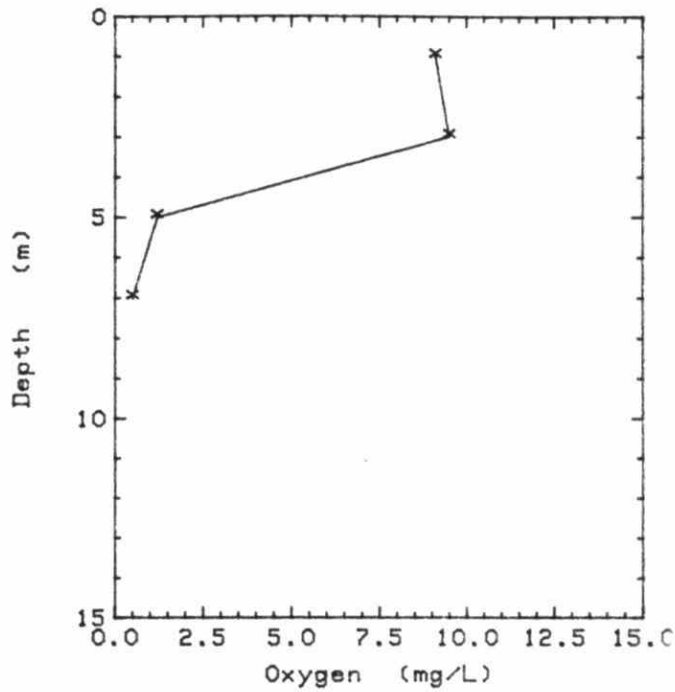


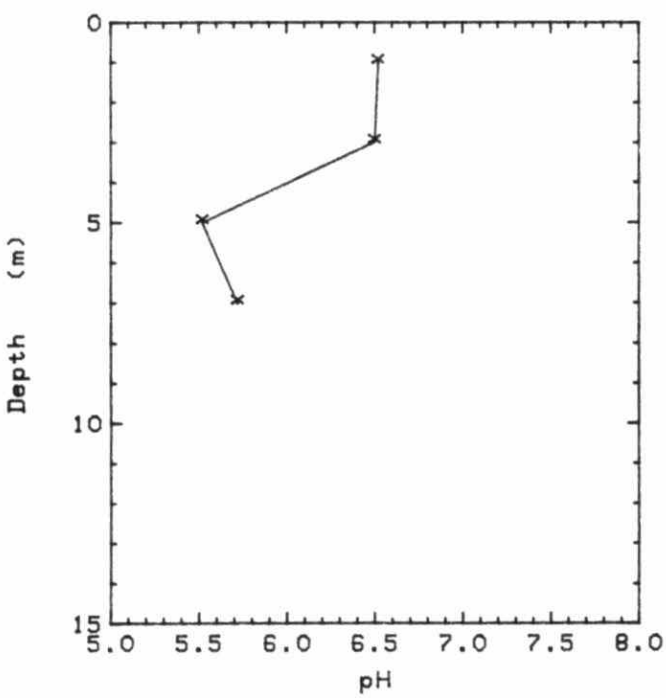



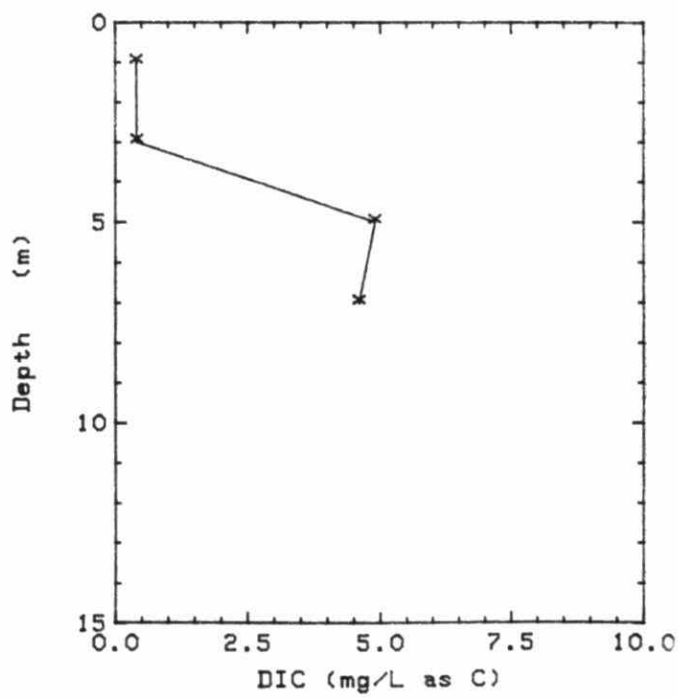



# CINDER 80.06.17



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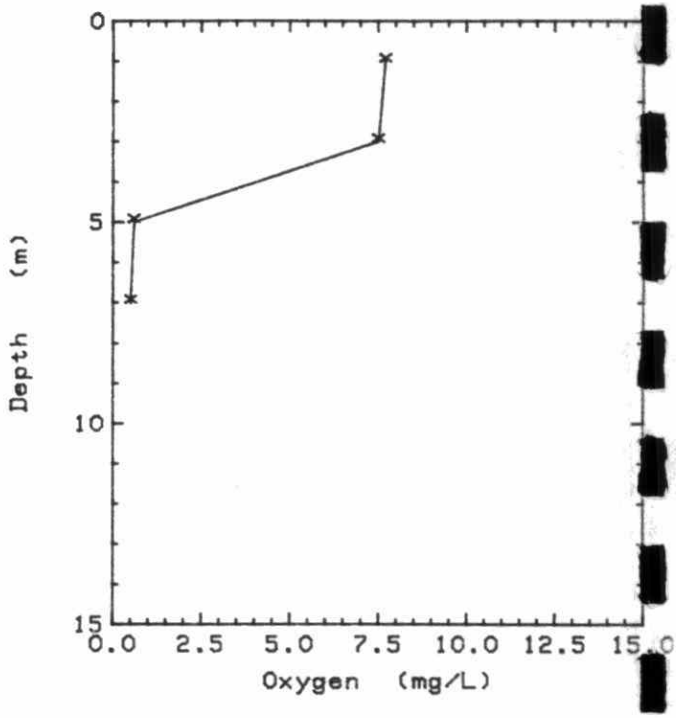
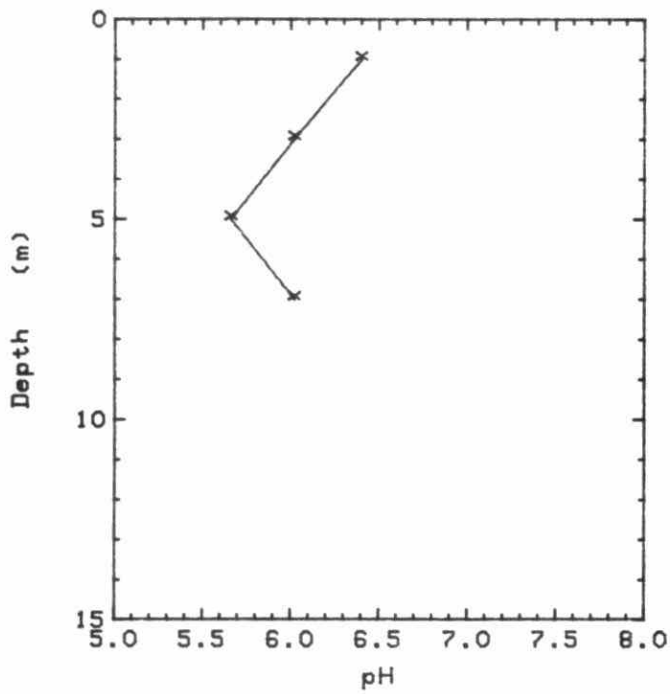
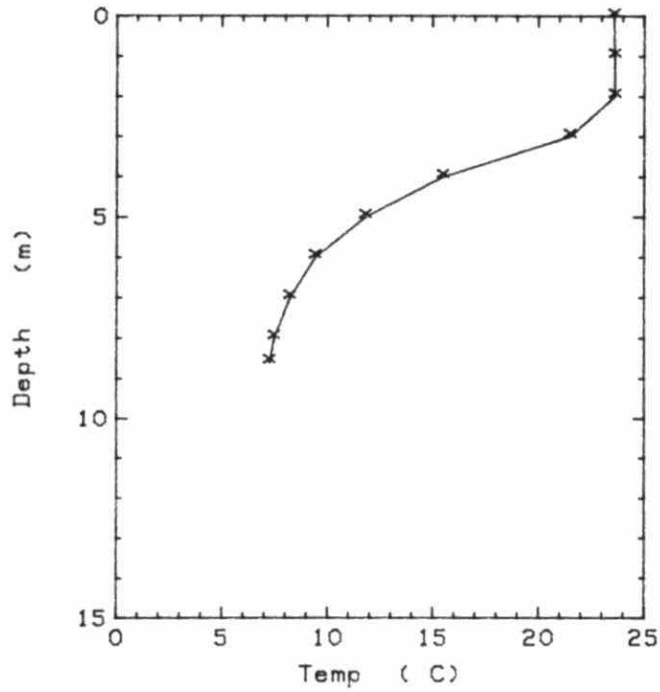
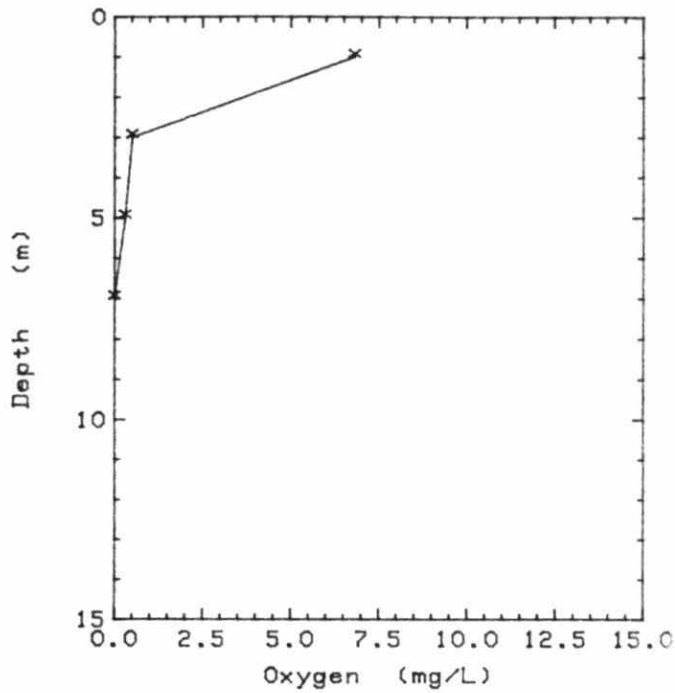
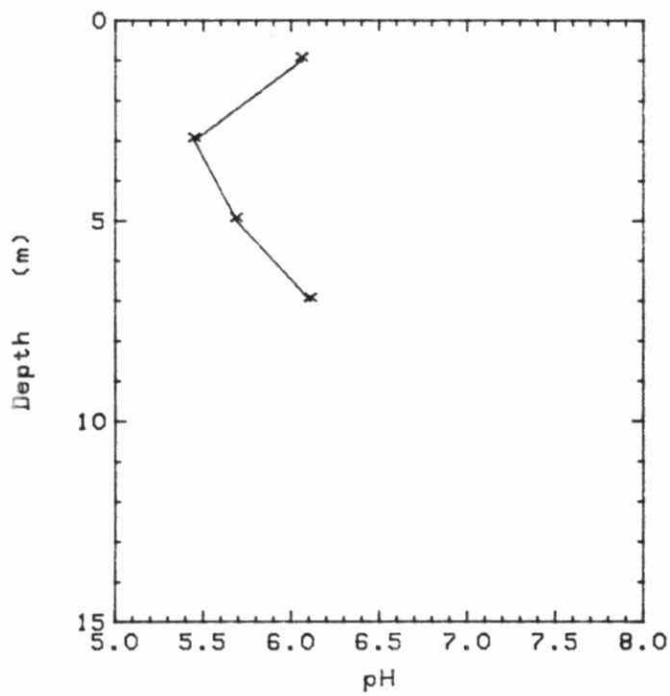


# CINDER 80.08.14



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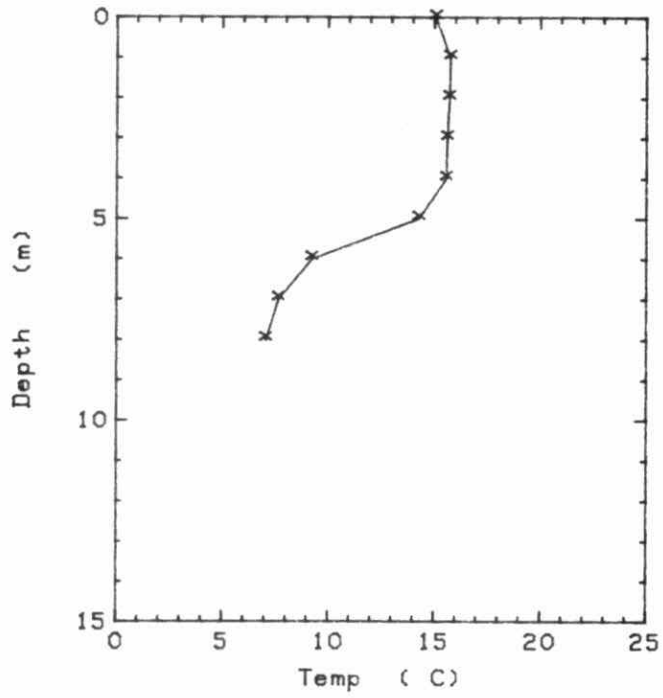


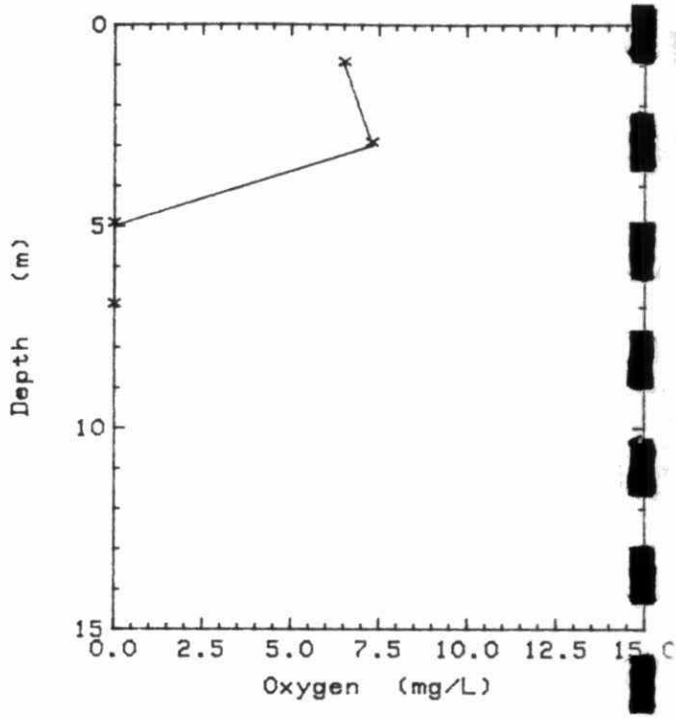


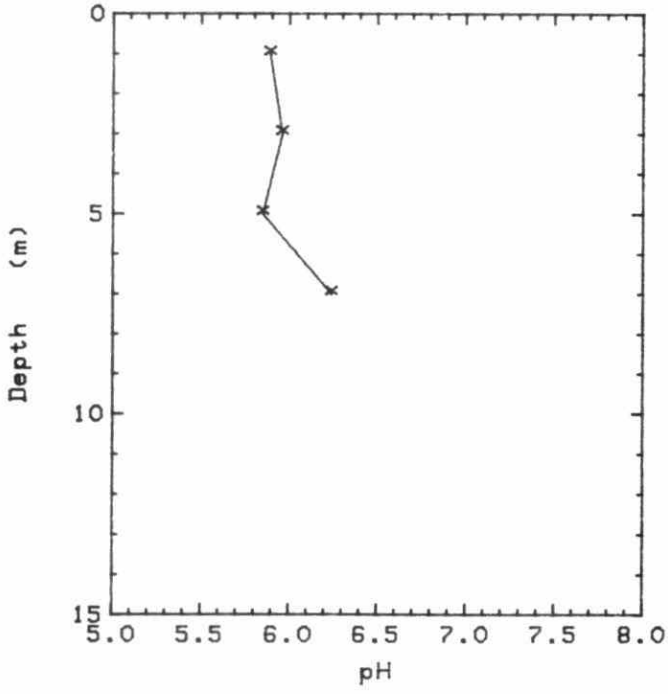

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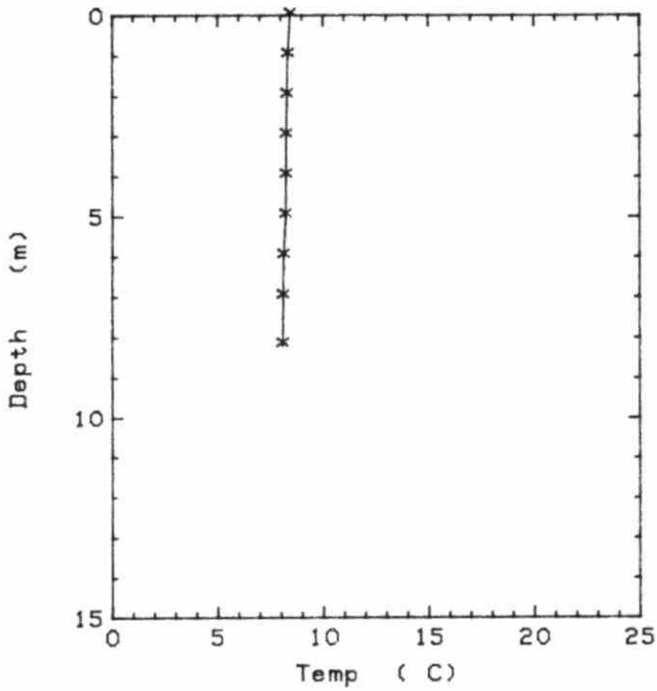


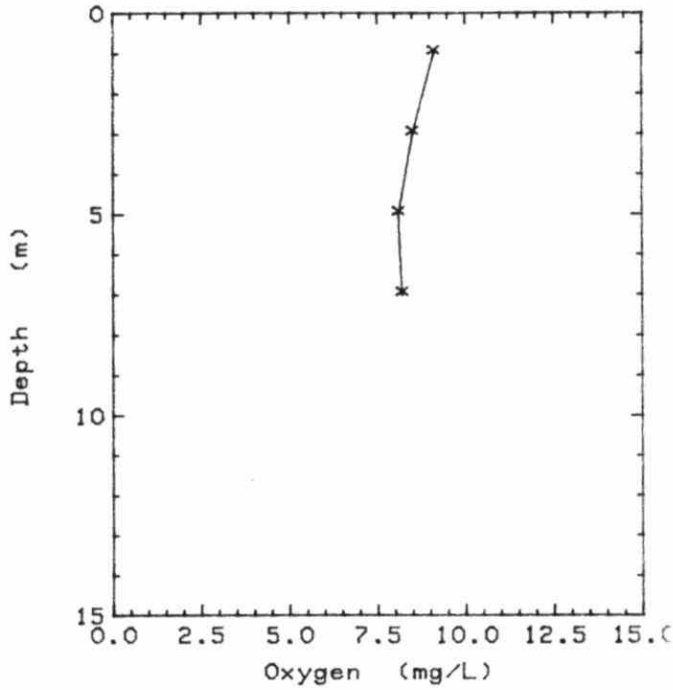


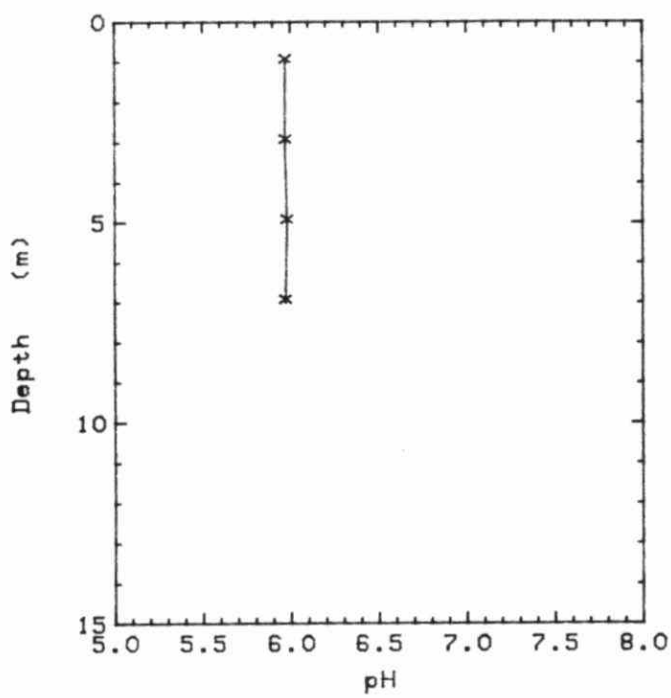

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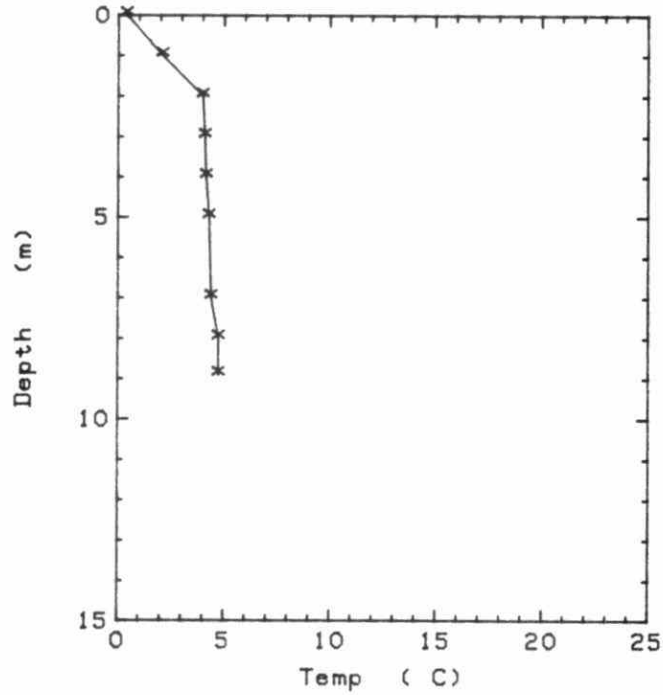
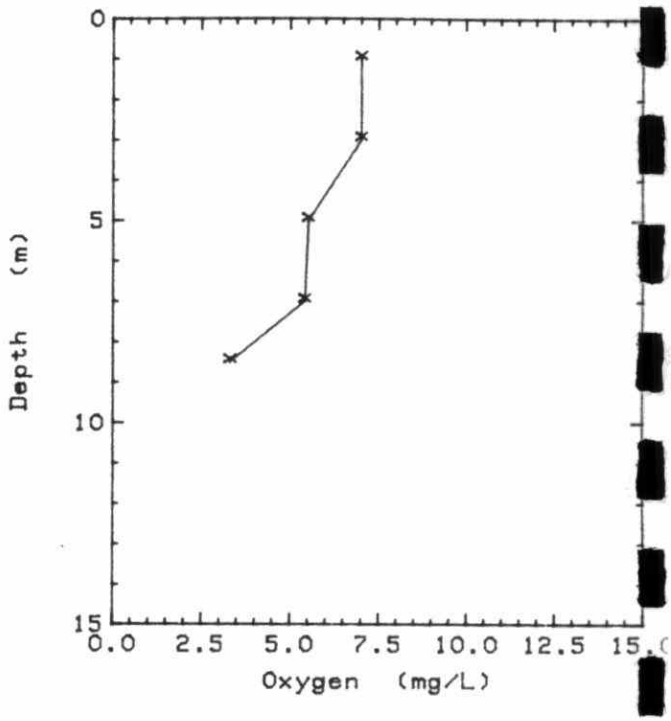
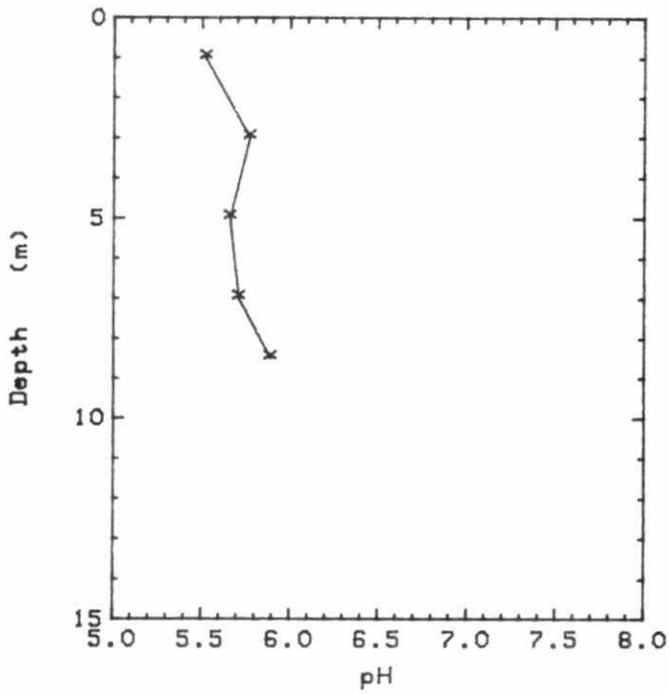
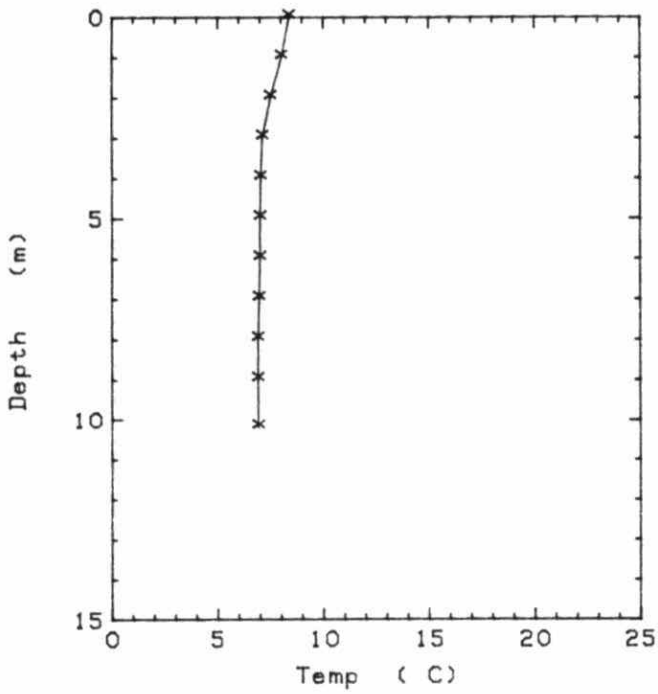
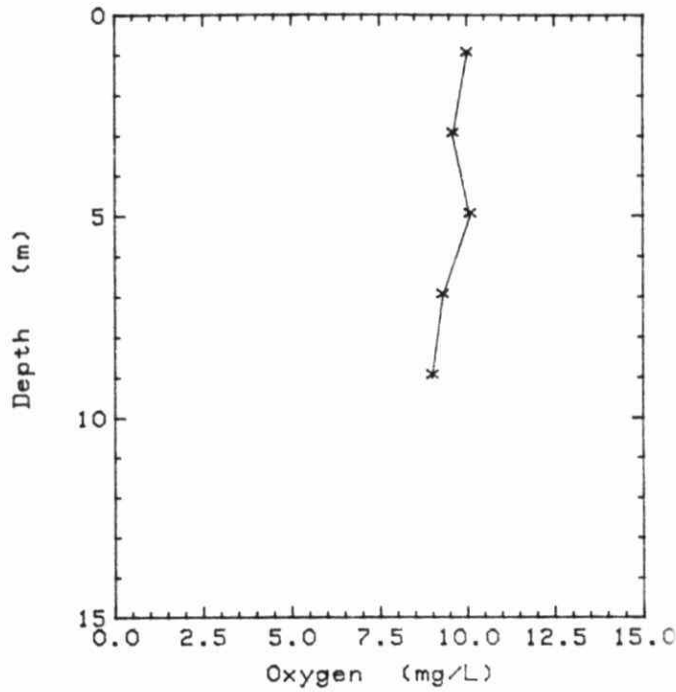


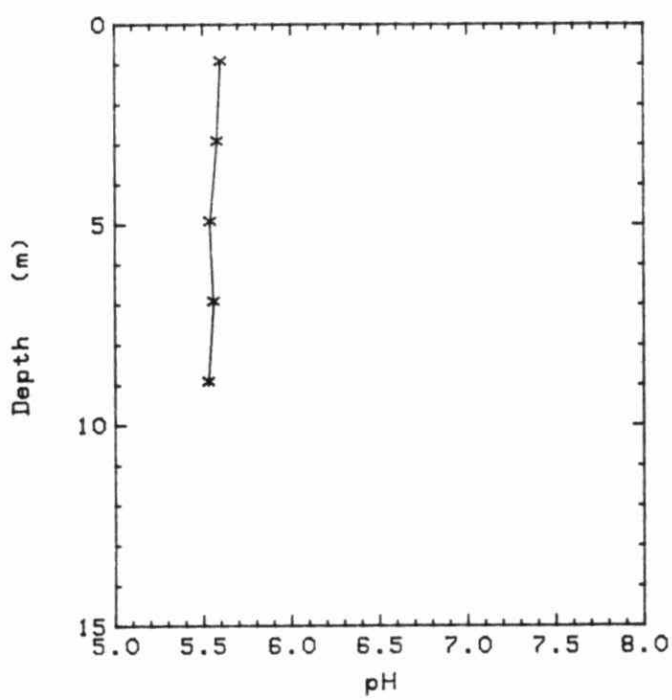



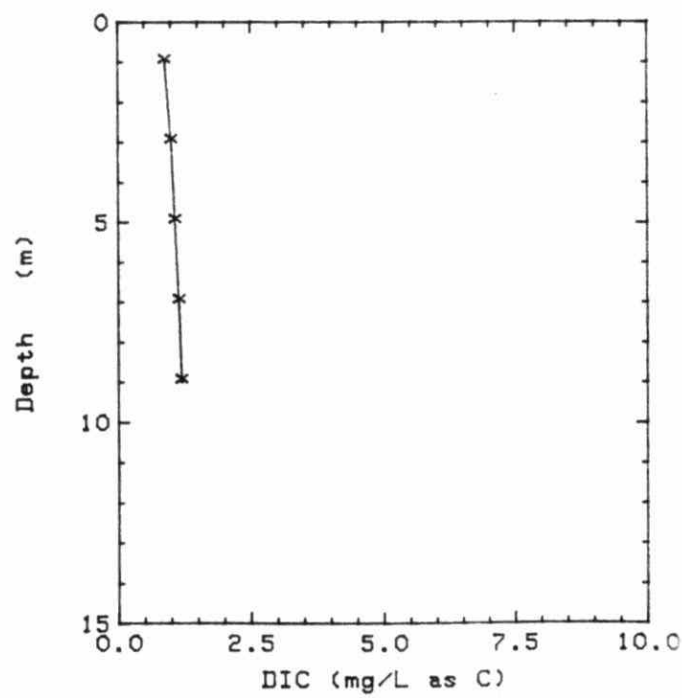



# CINDER 81.04.22

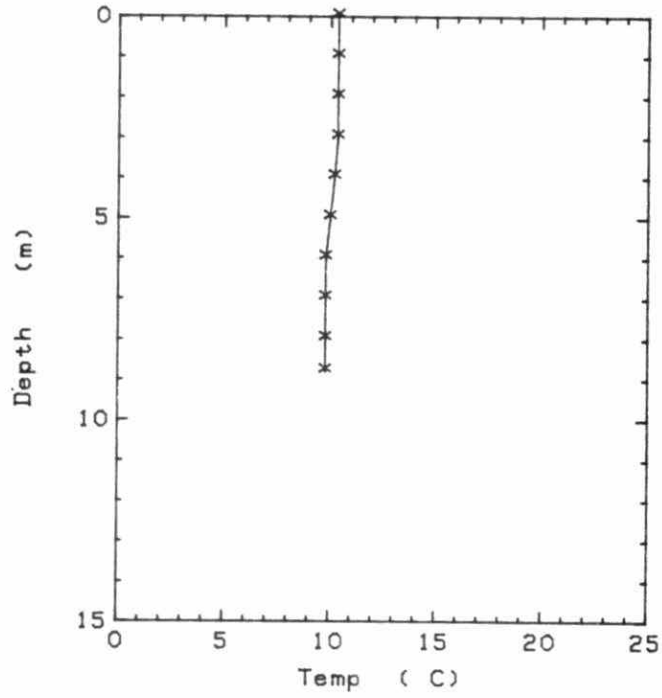


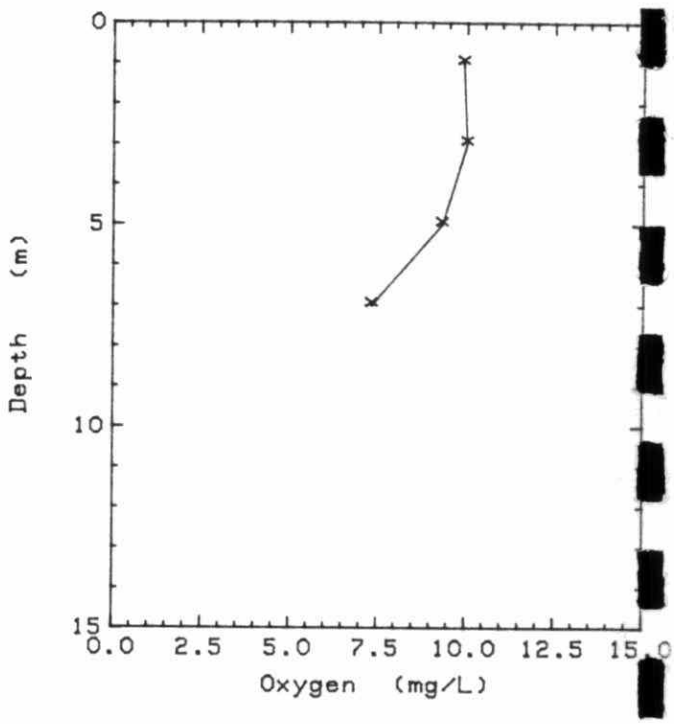



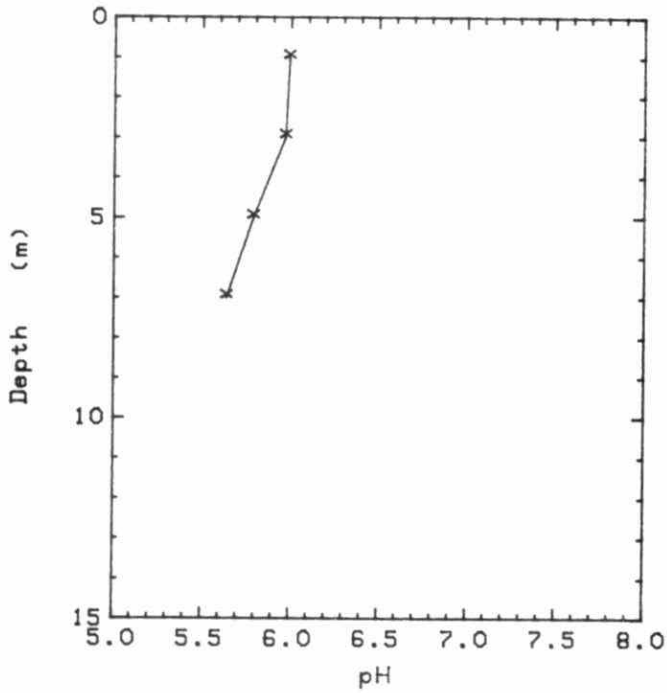



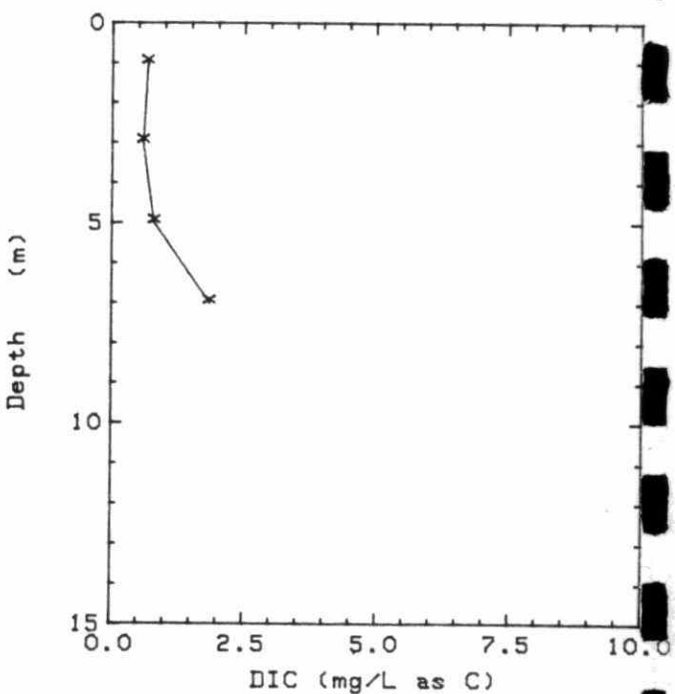



# CINDER 81.05.13

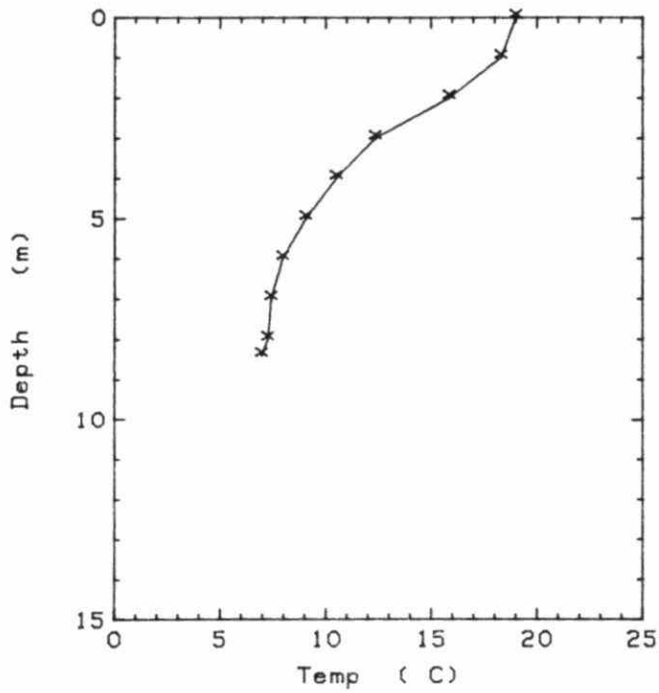


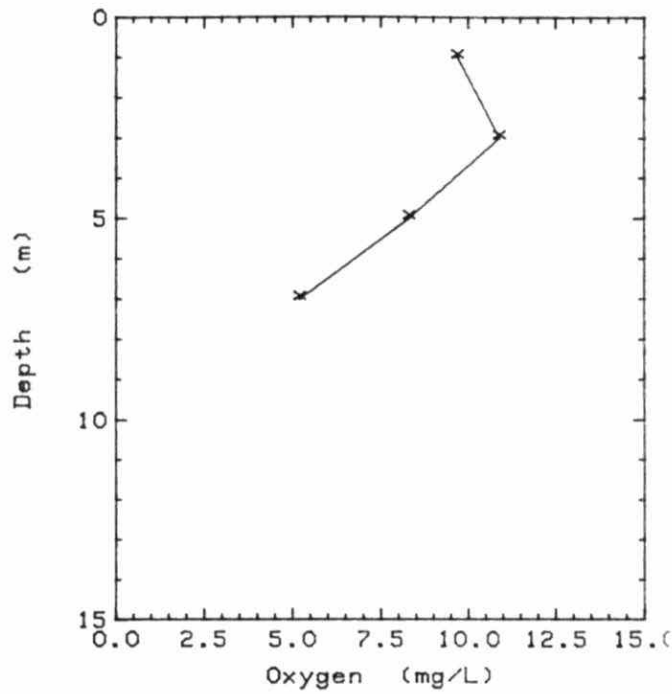



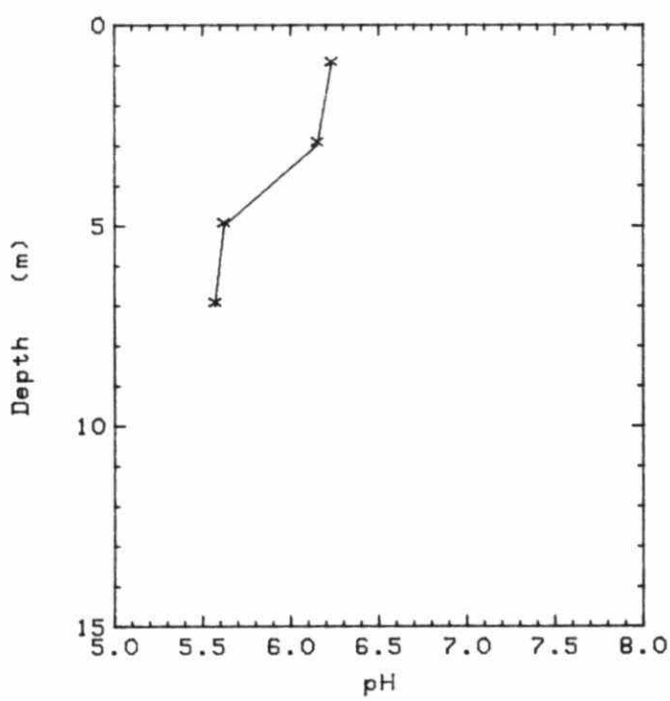



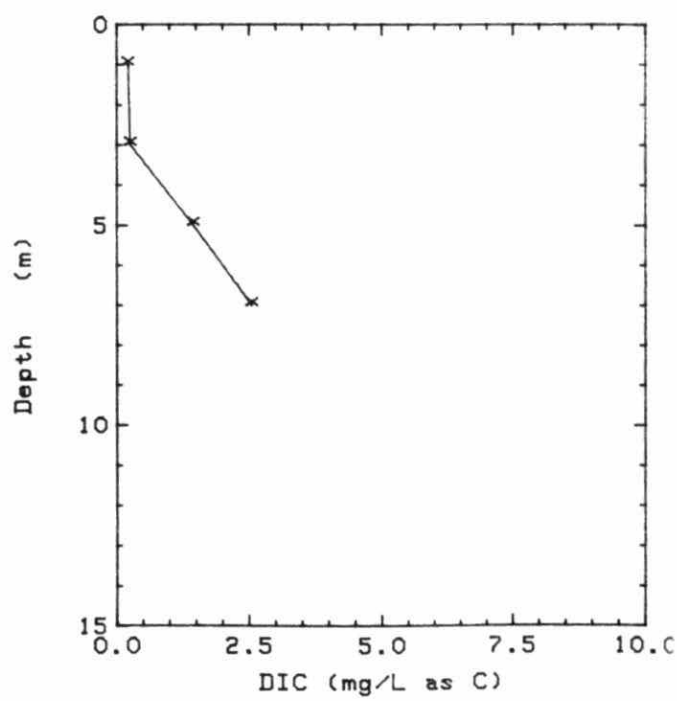



# CINDER 81.05.28

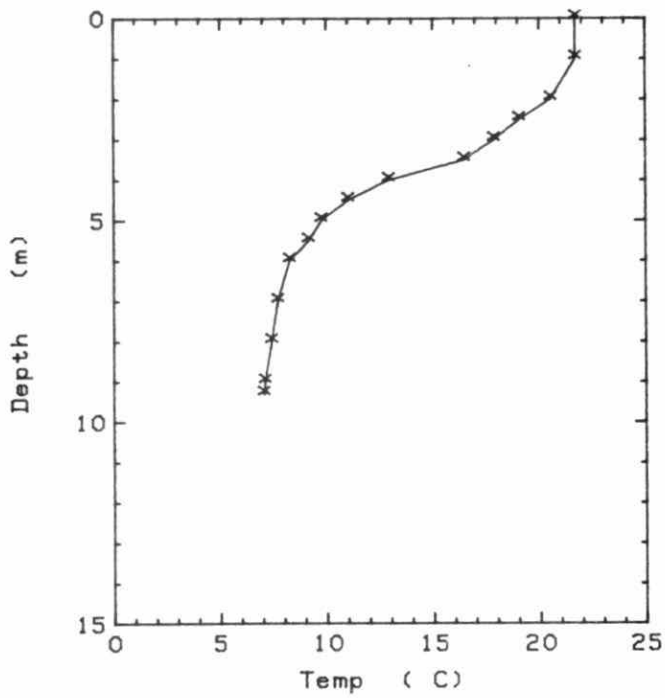


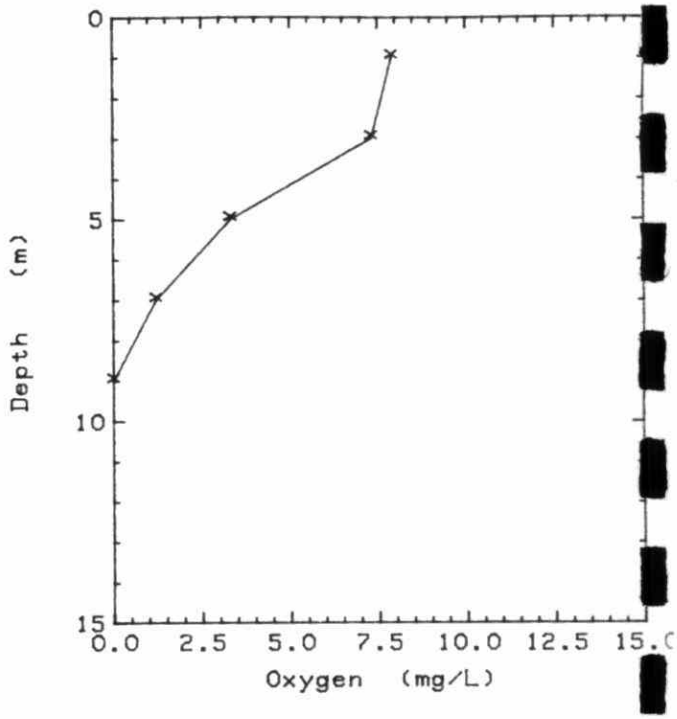



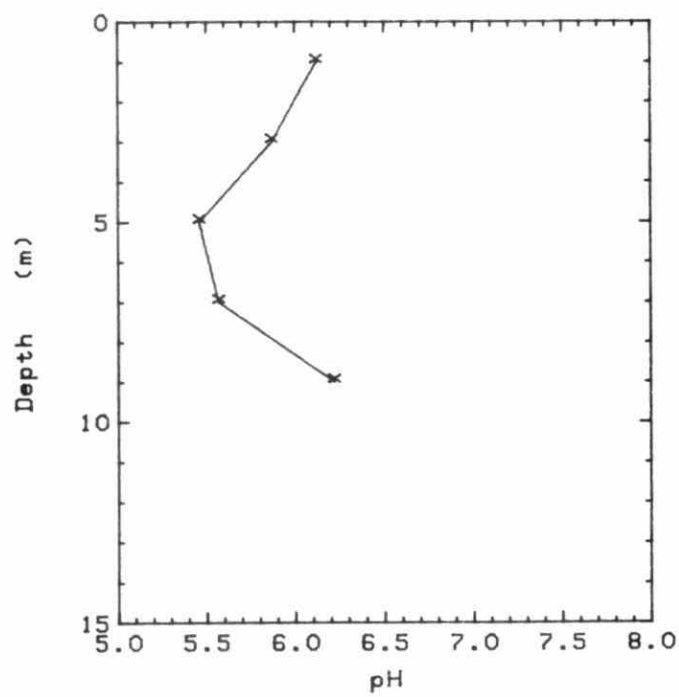



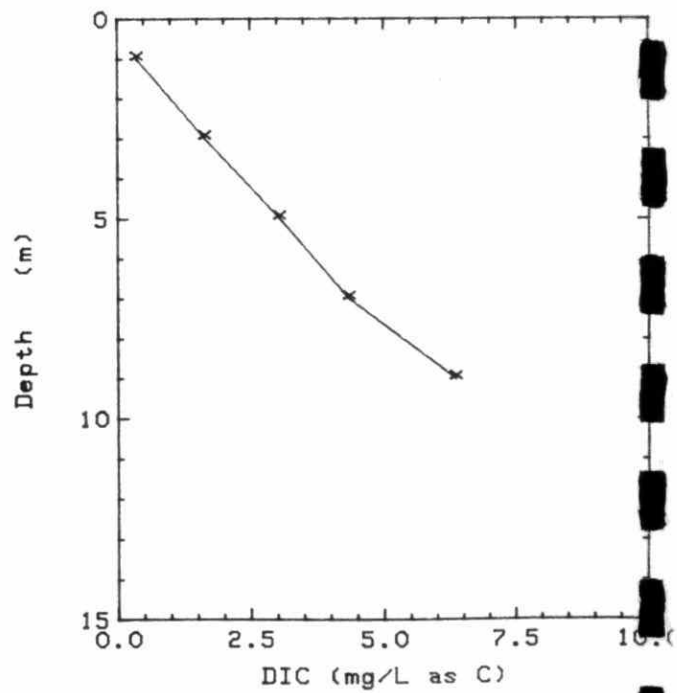



# CINDER 81.06.30

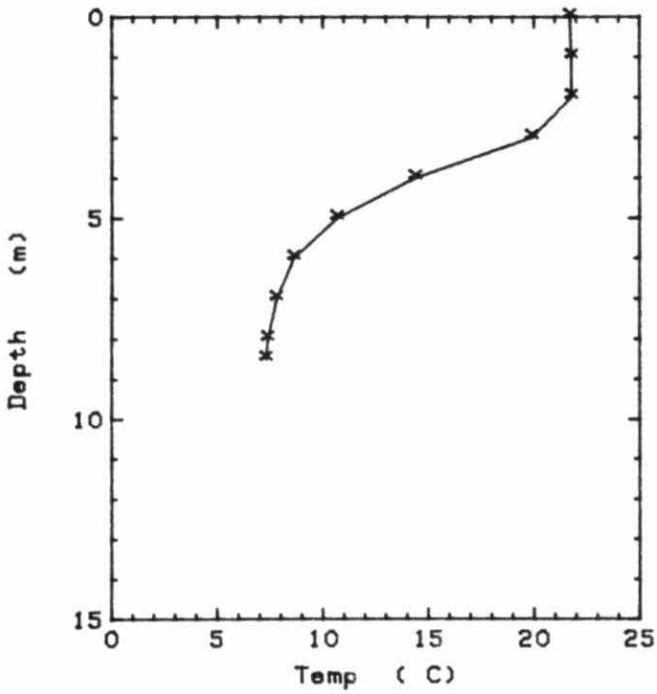


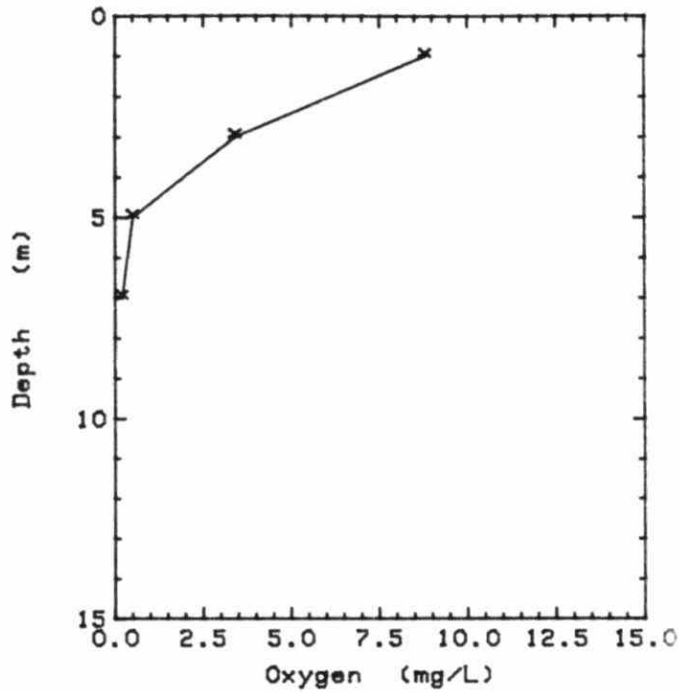



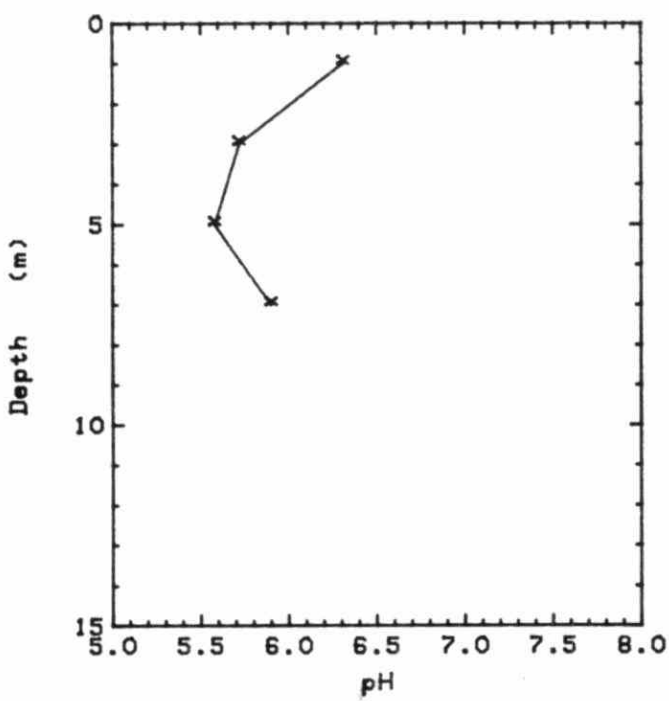



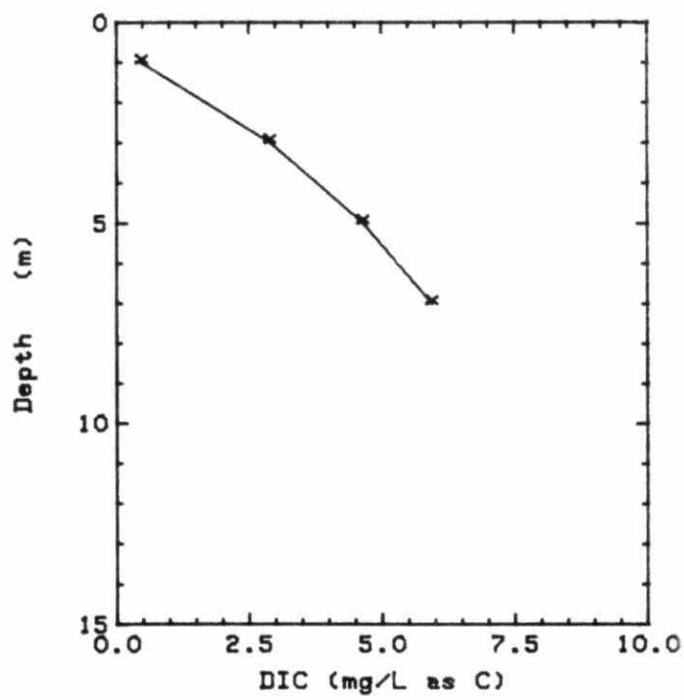



# CINDER 81.07.28

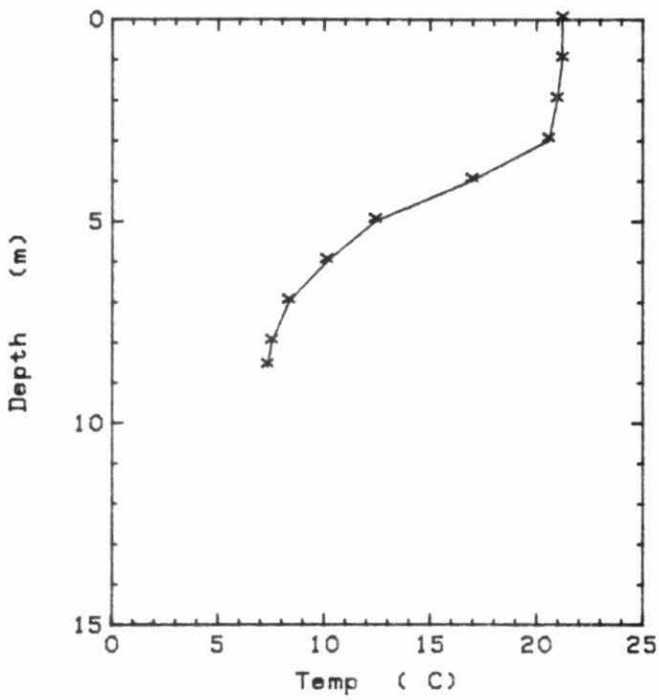


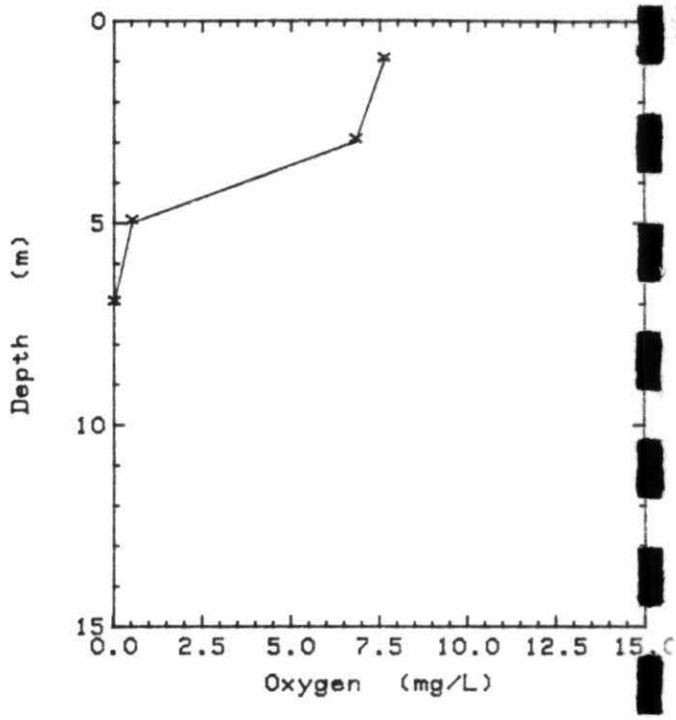



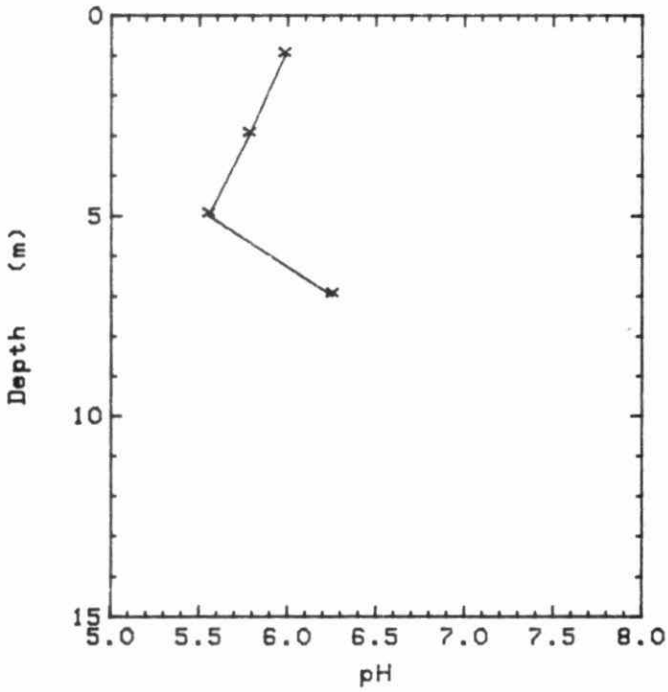



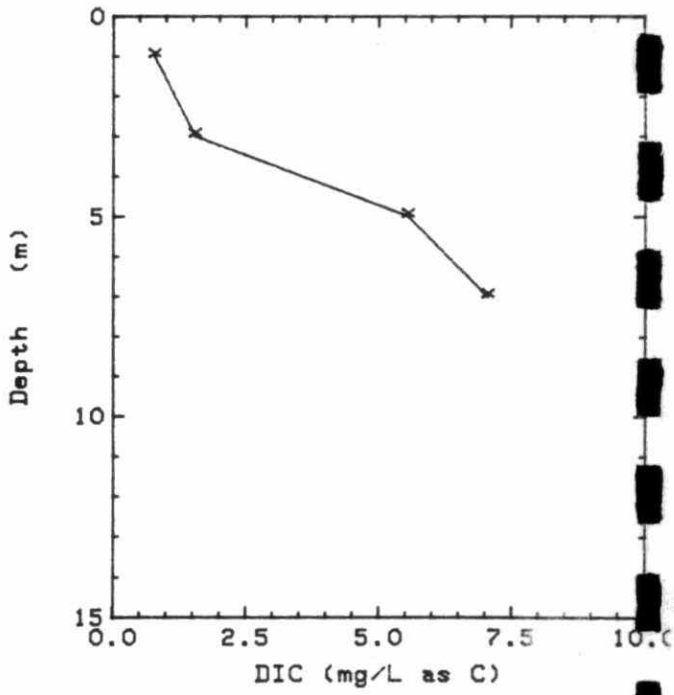



# CINDER 81.09.01

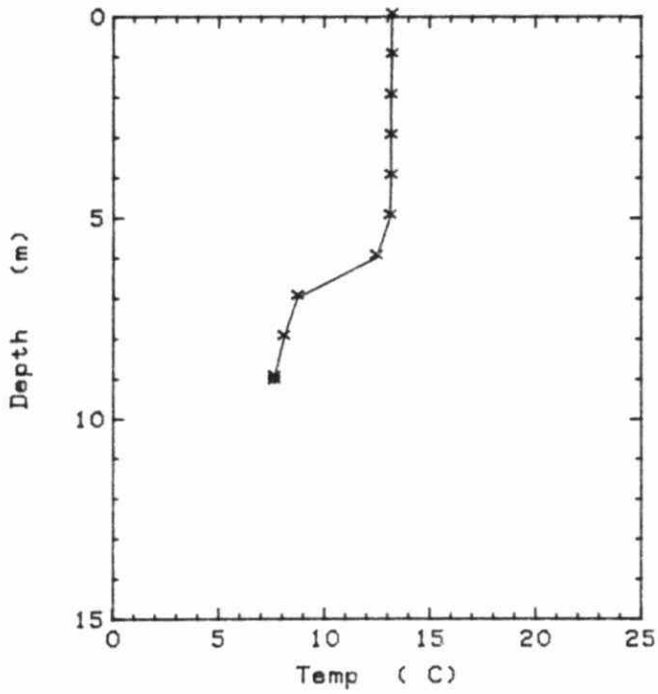


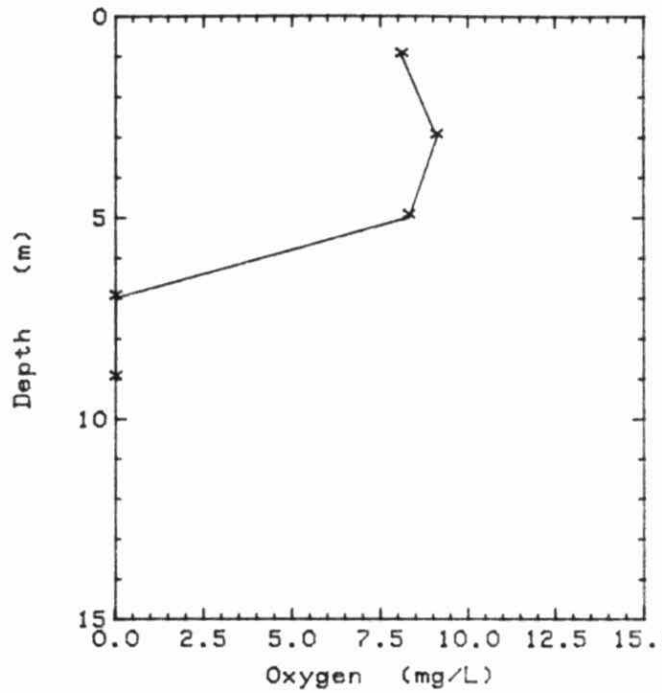



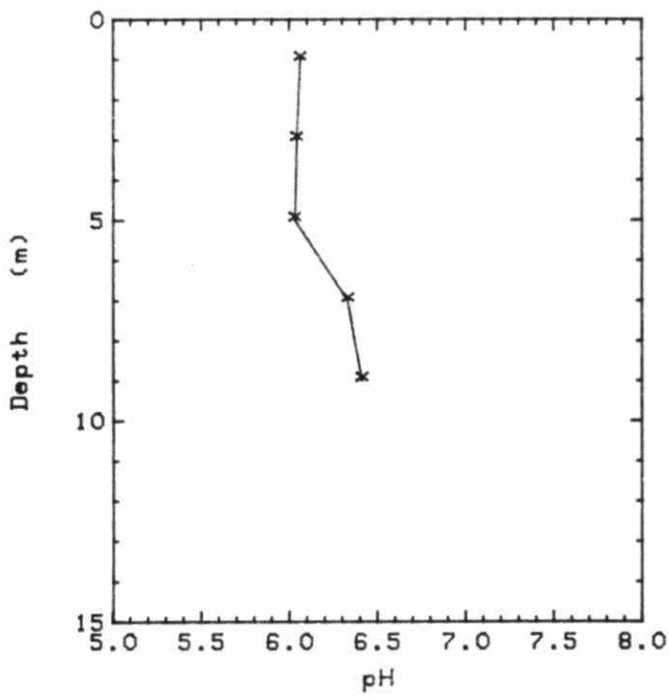



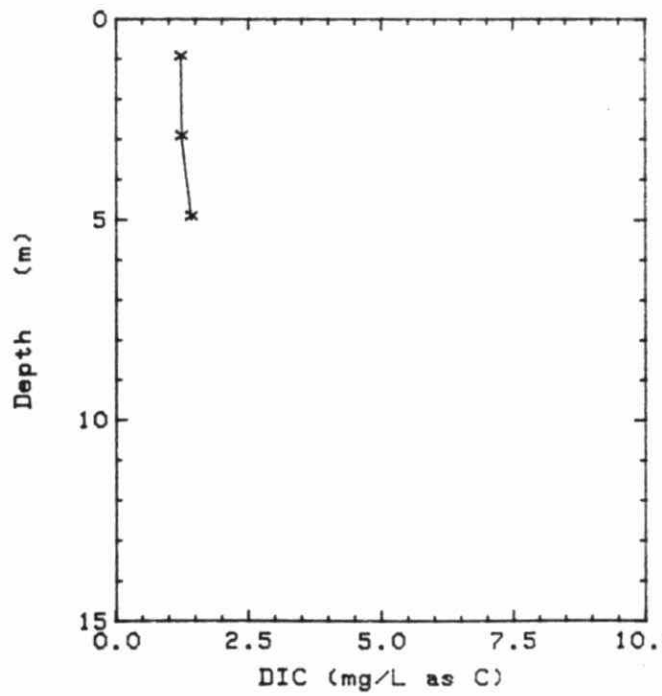



# CINDER 81.09.29

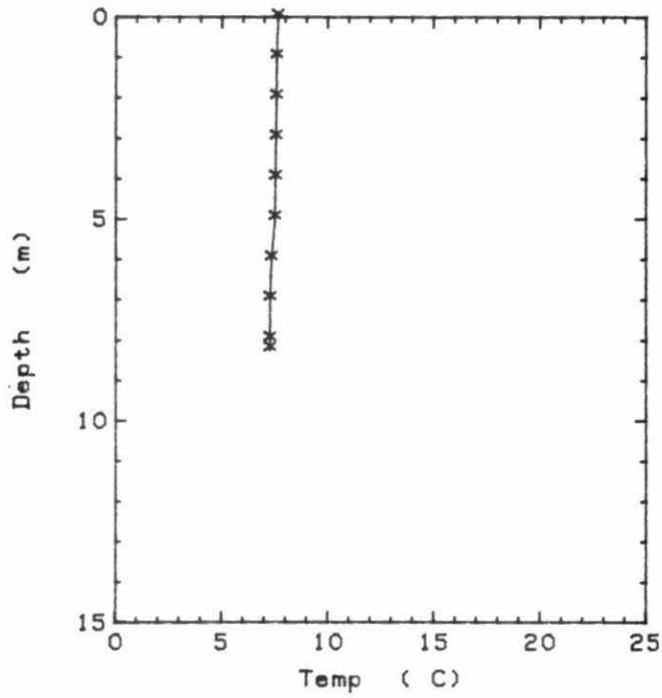


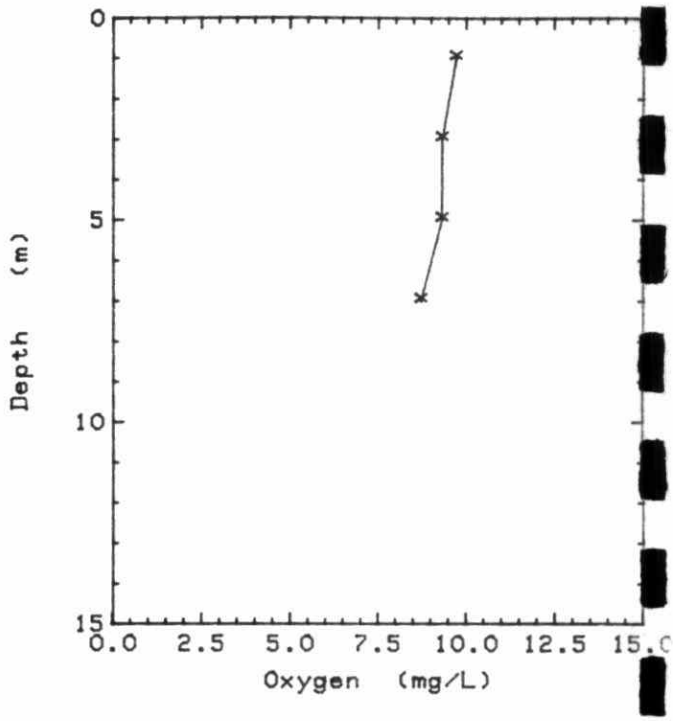



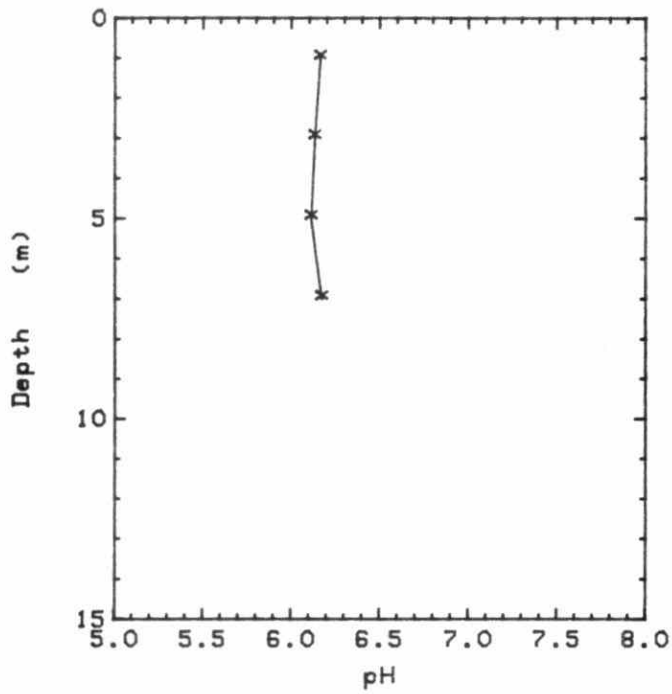



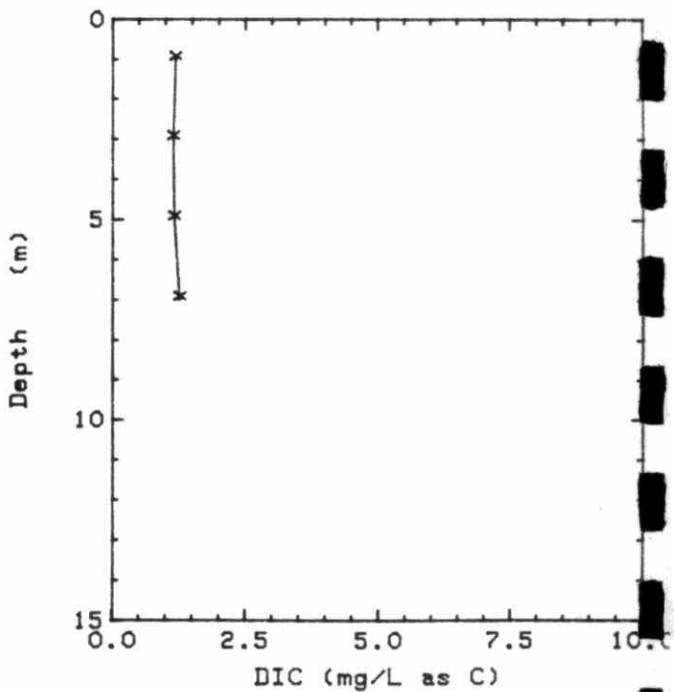



# CINDER 81.10.28

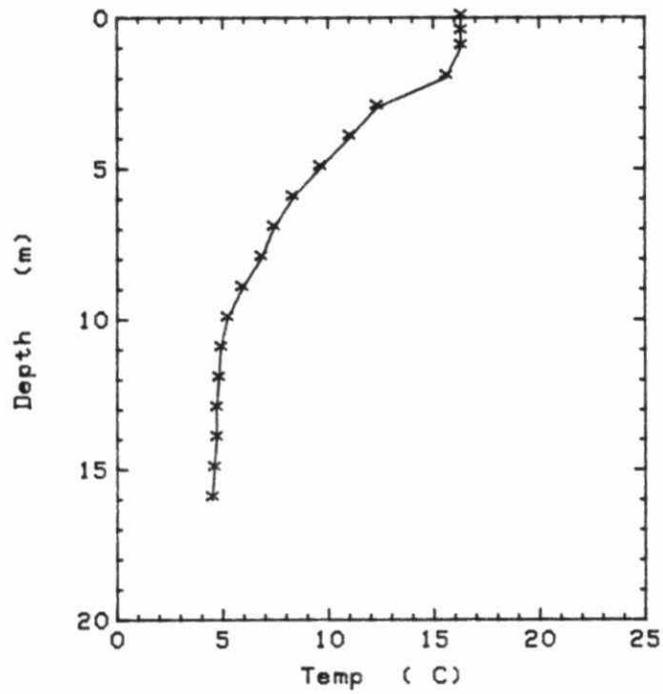


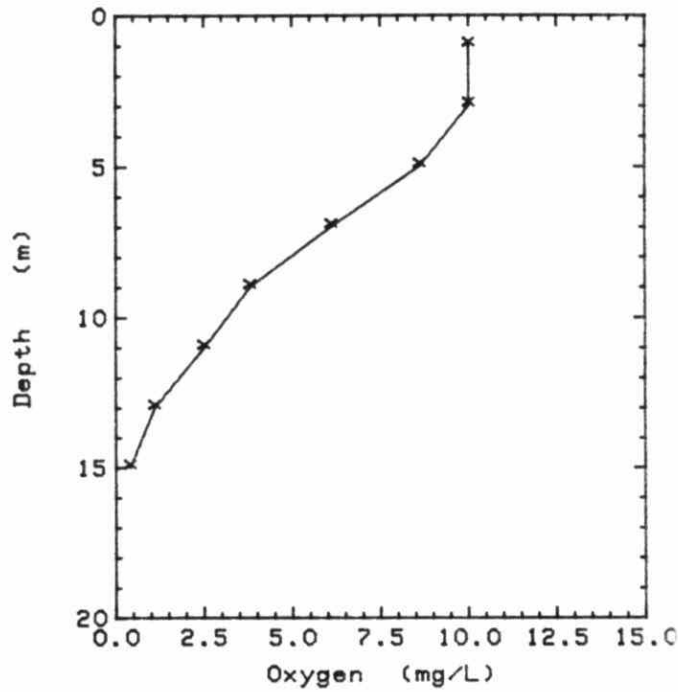



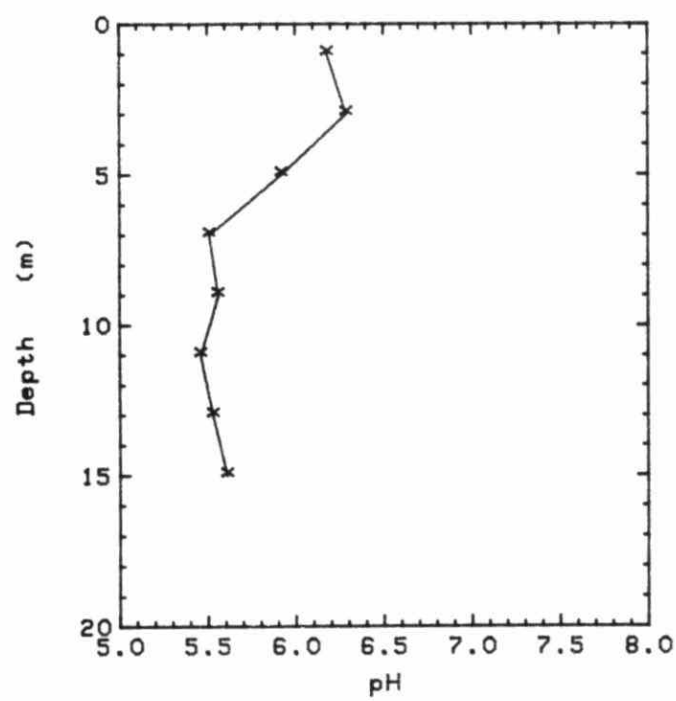



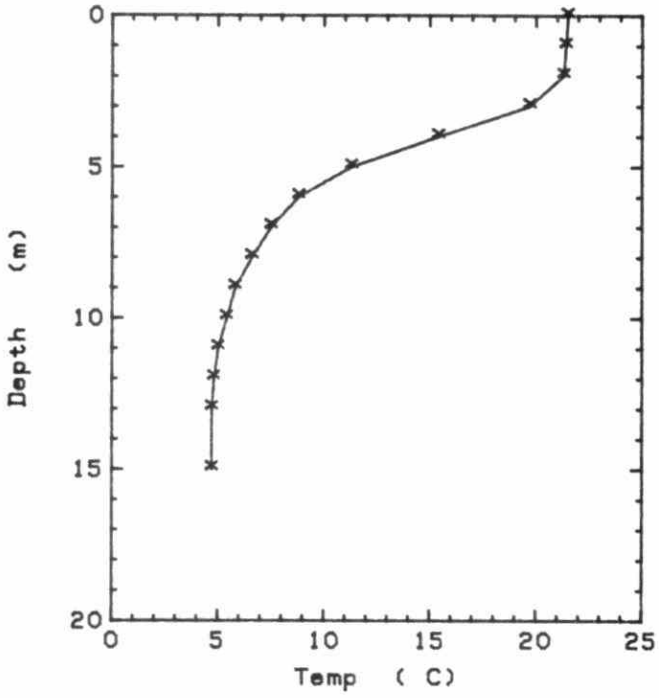
# CINDER 84.05.23

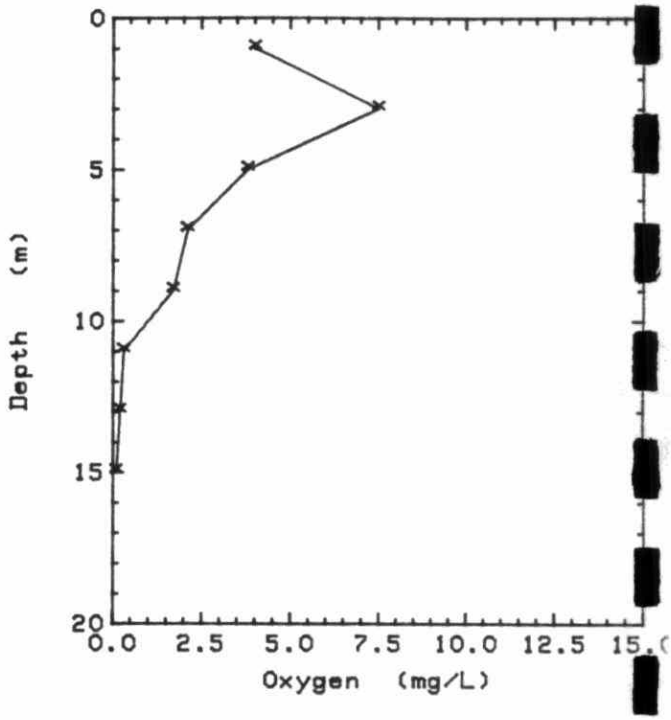


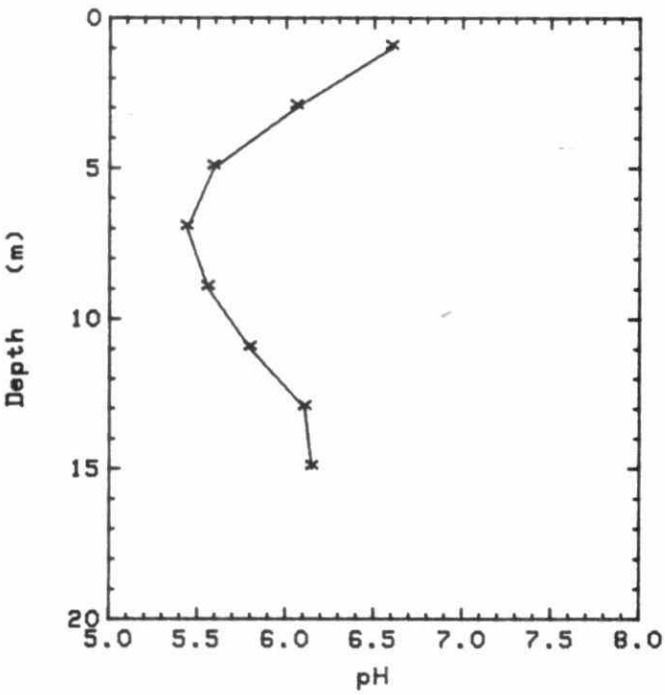



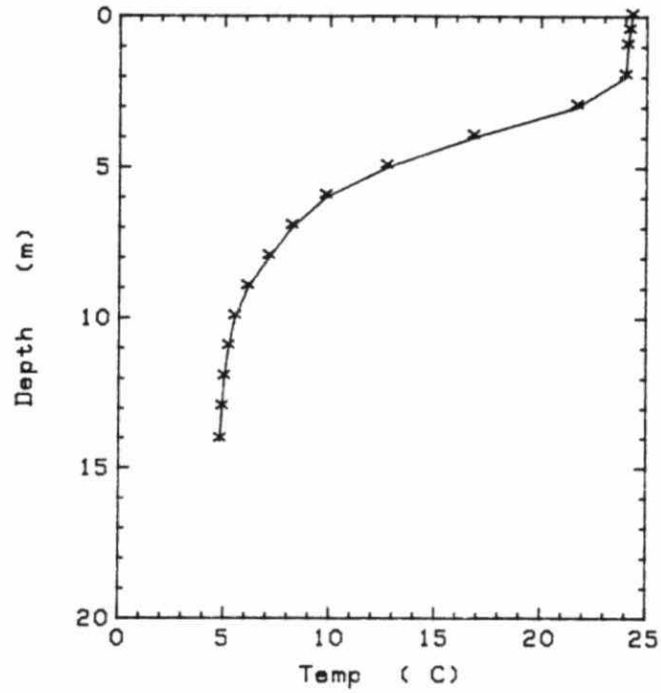
# CINDER 84.07.12

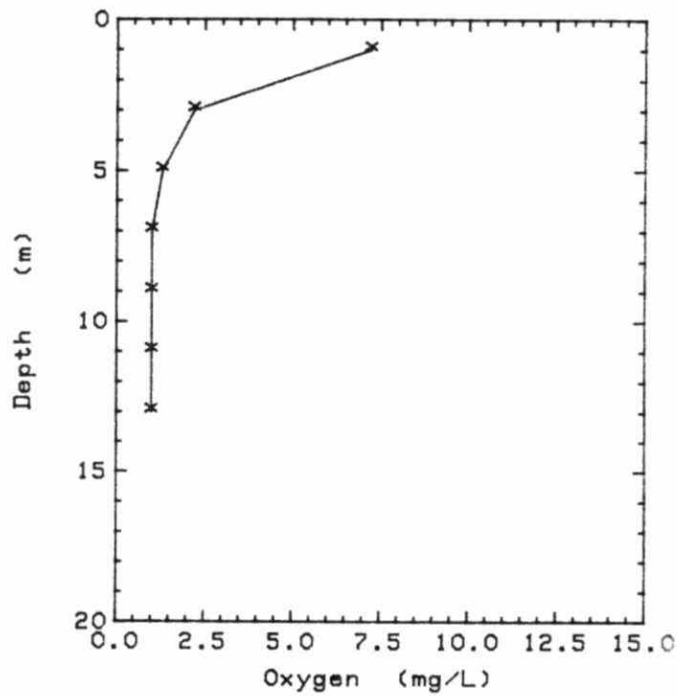


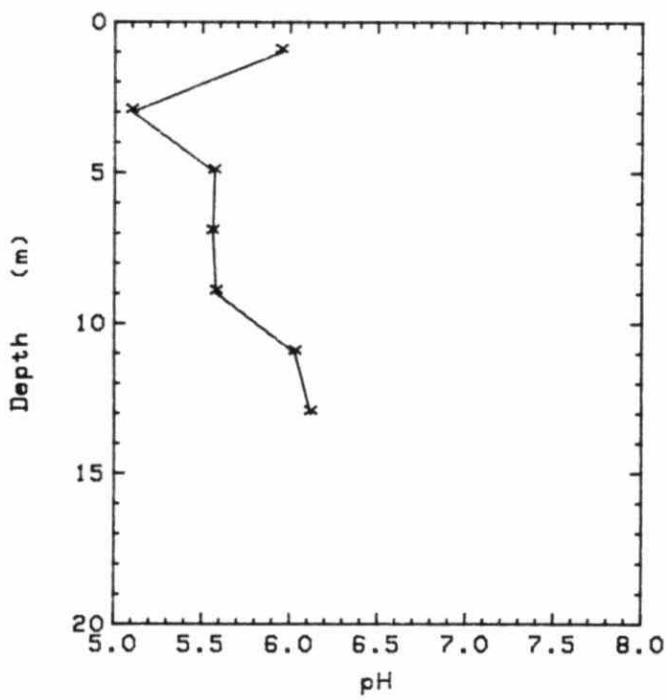



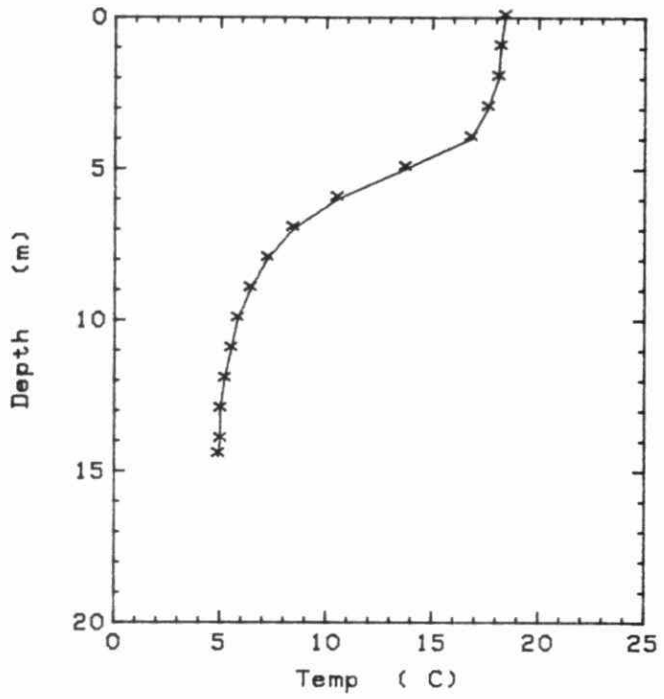
# CINDER 84.08.13

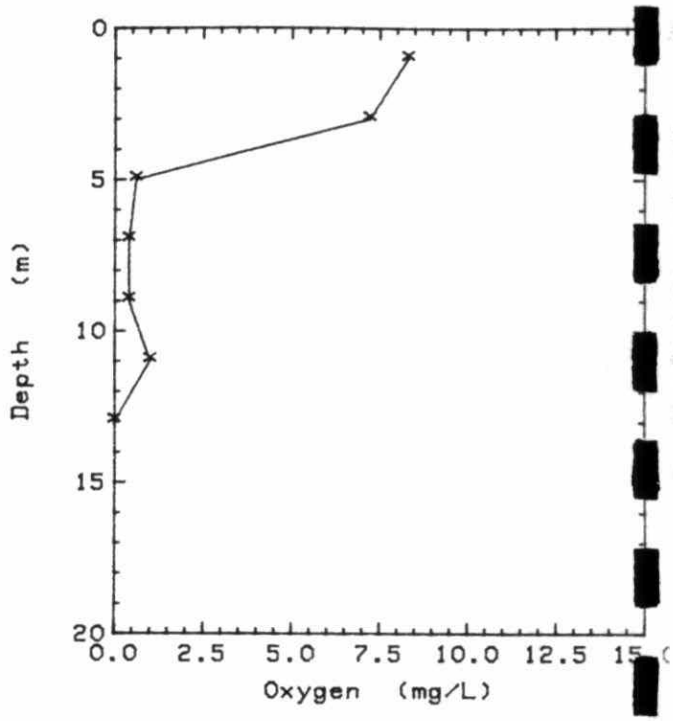


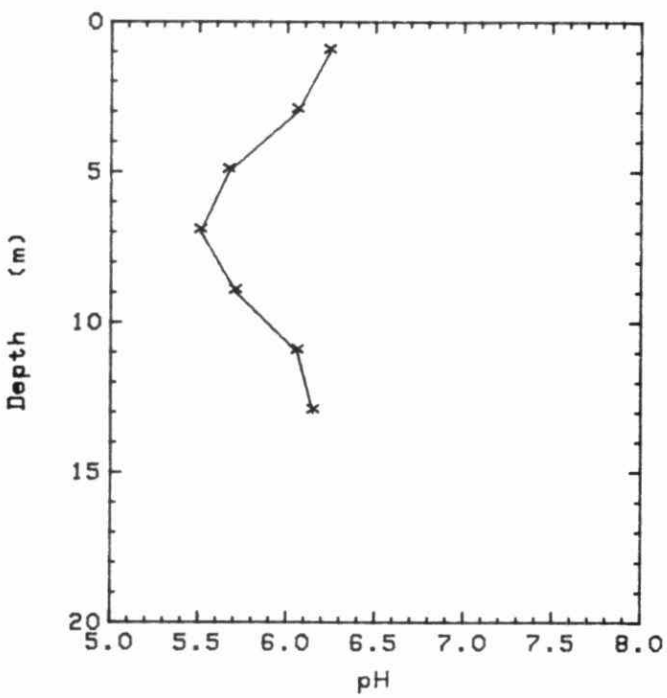



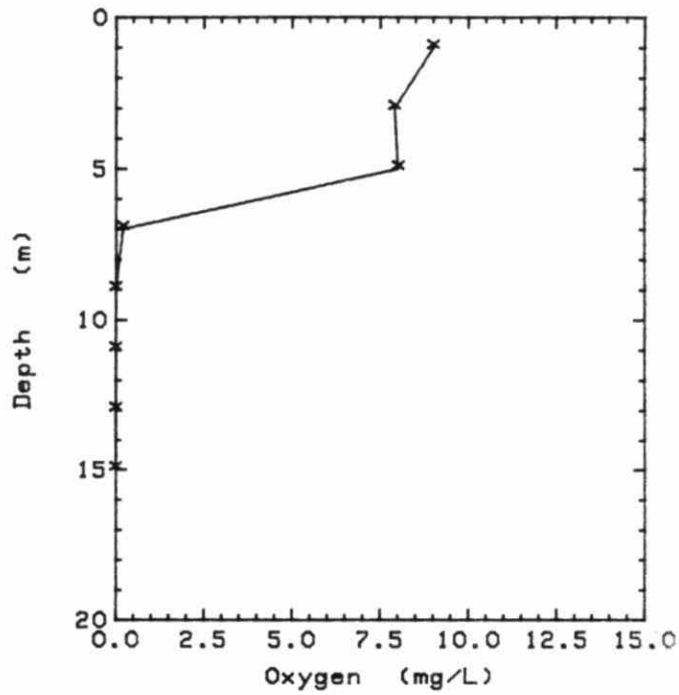
# CINDER 84.09.10

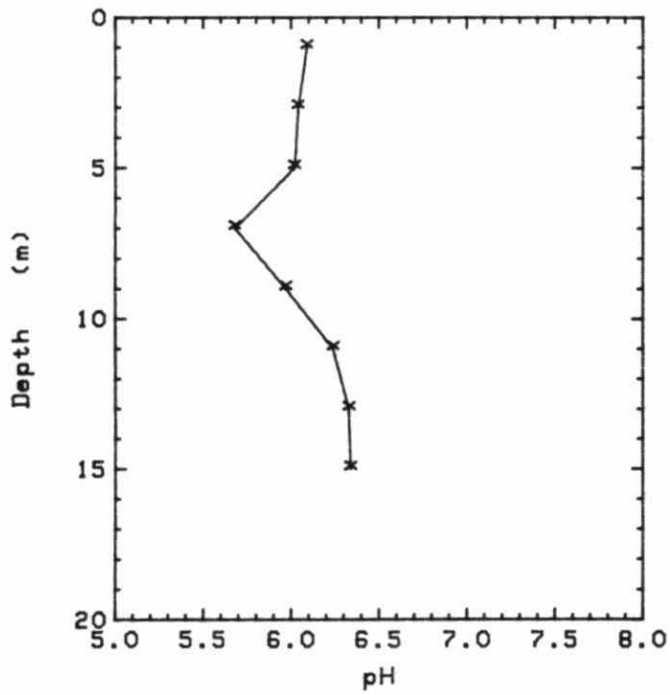


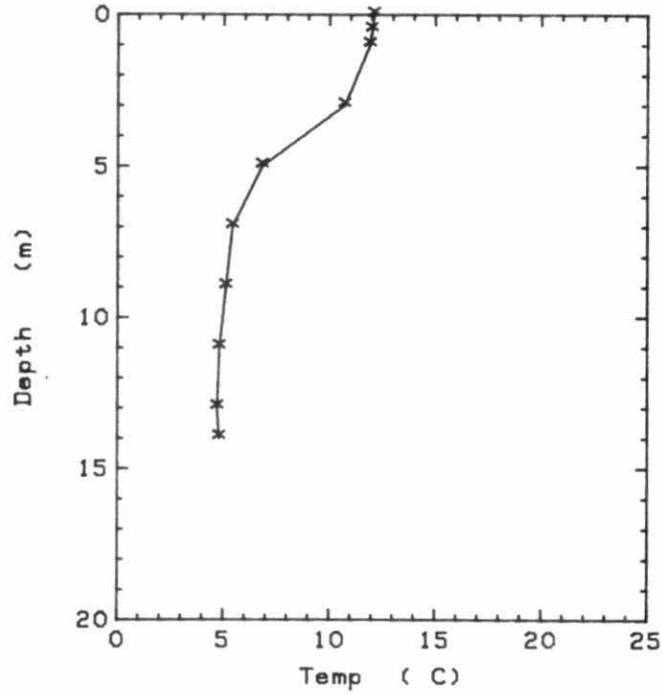



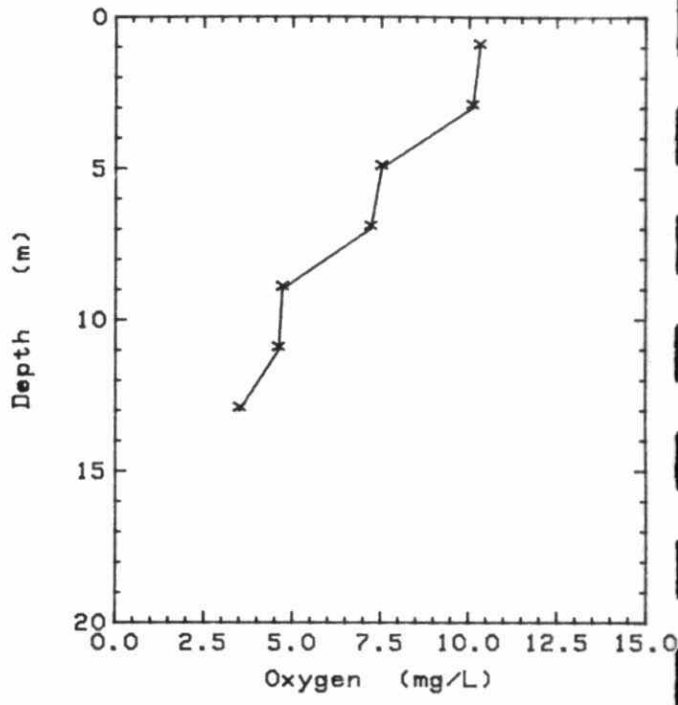
# CINDER 84.10.10

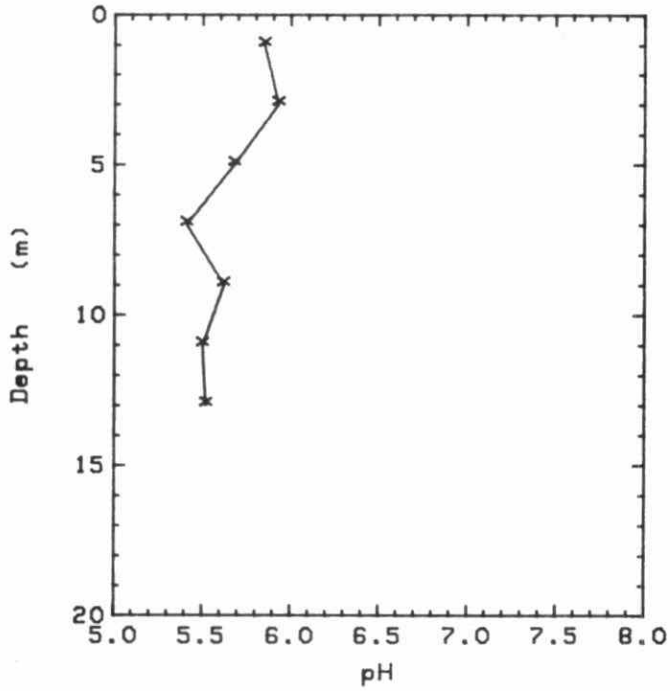


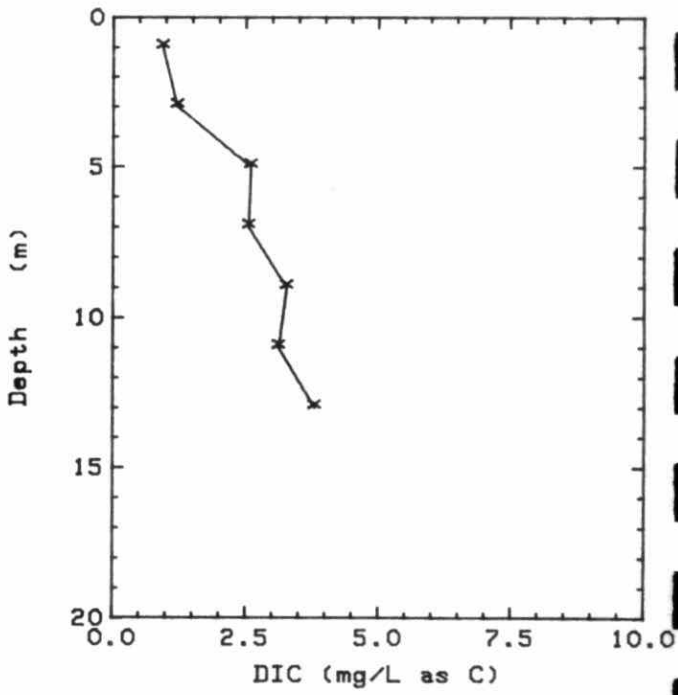



# CINDER 85.05.09

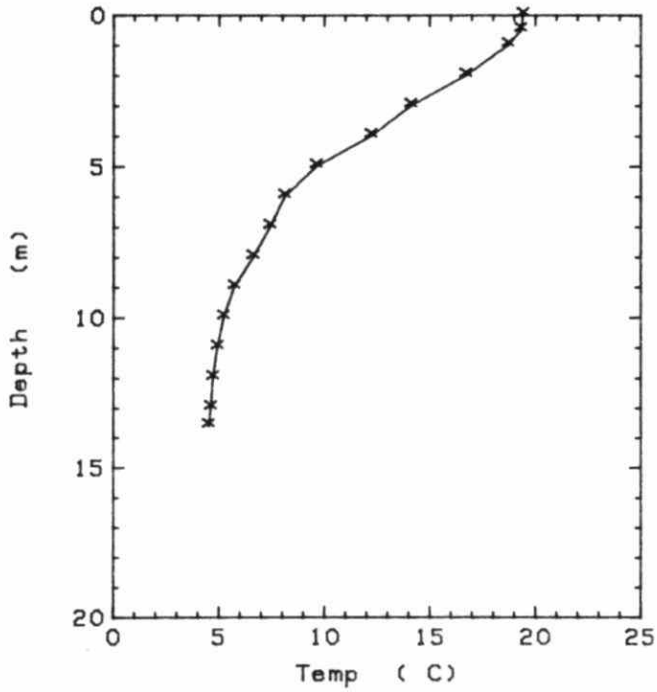


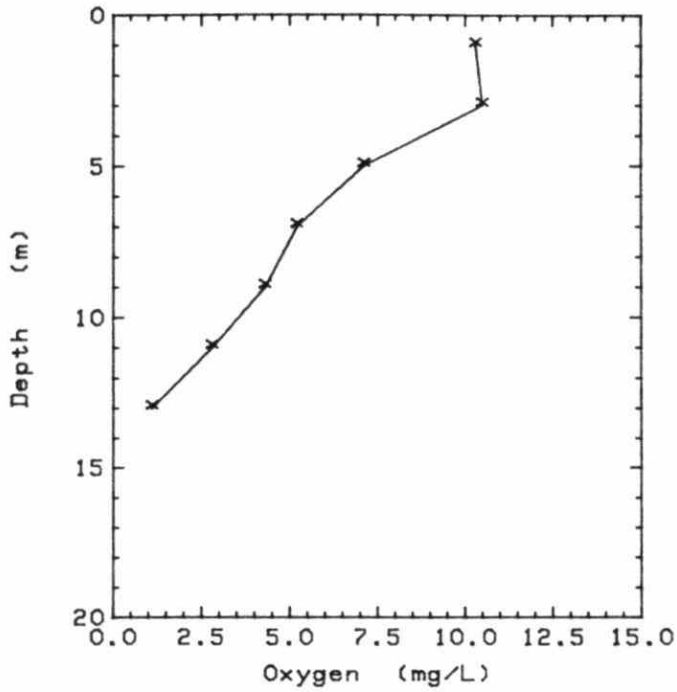



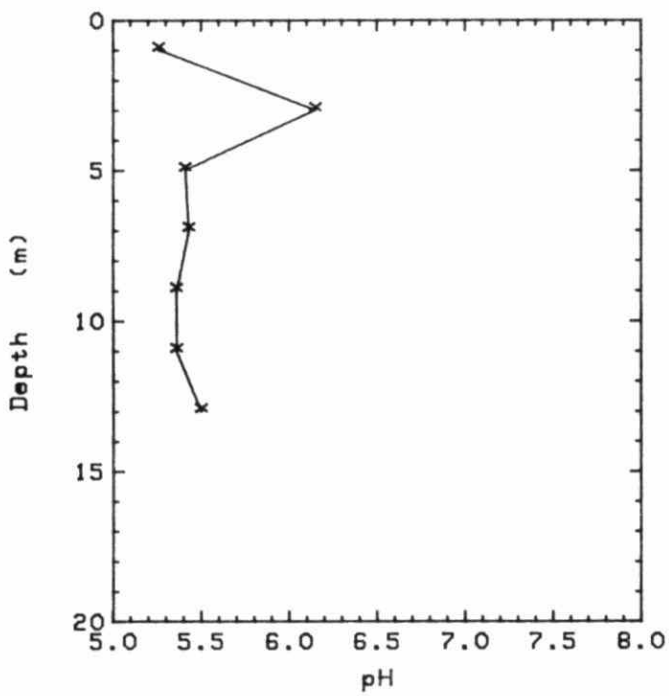



# CINDER 85.06.05



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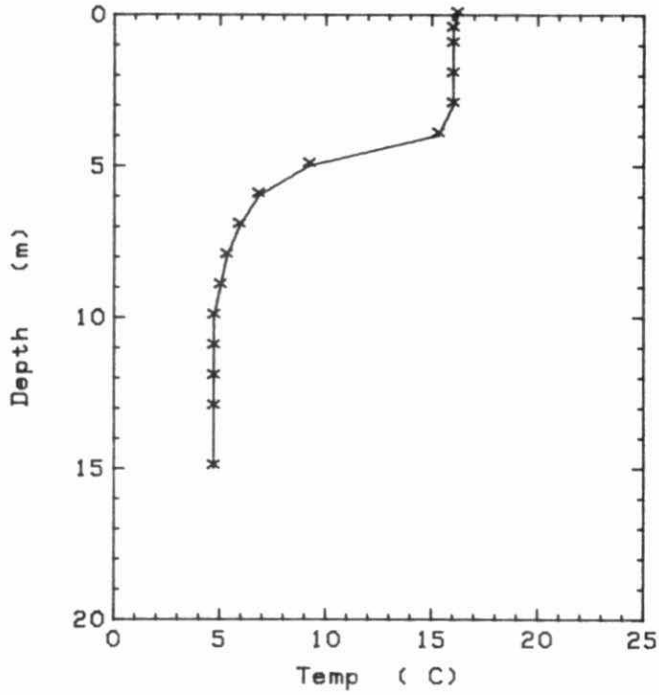
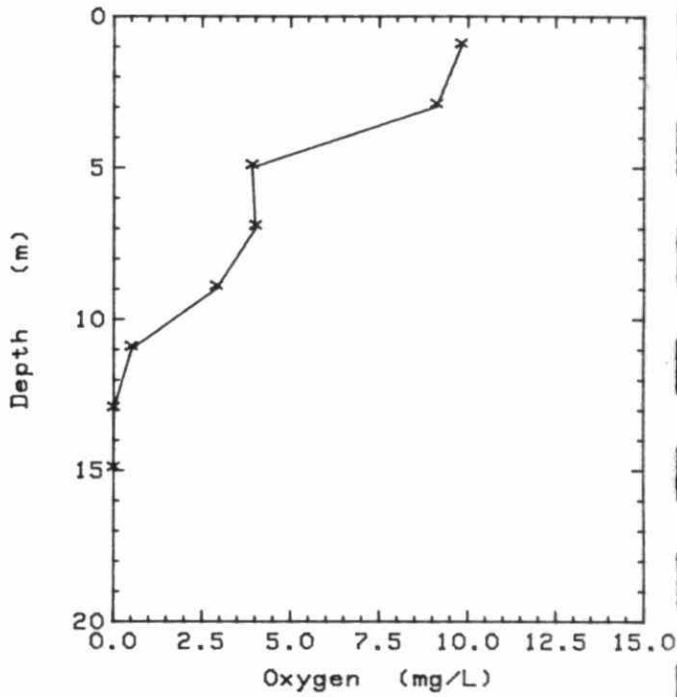
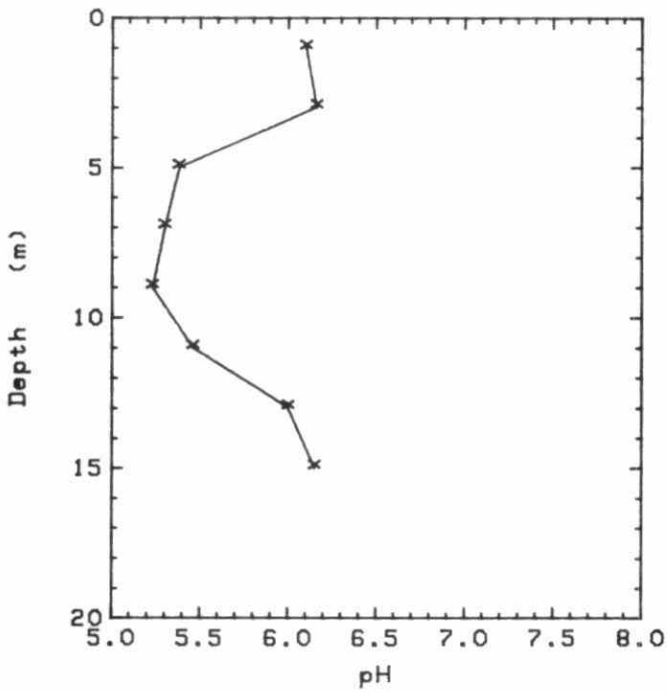
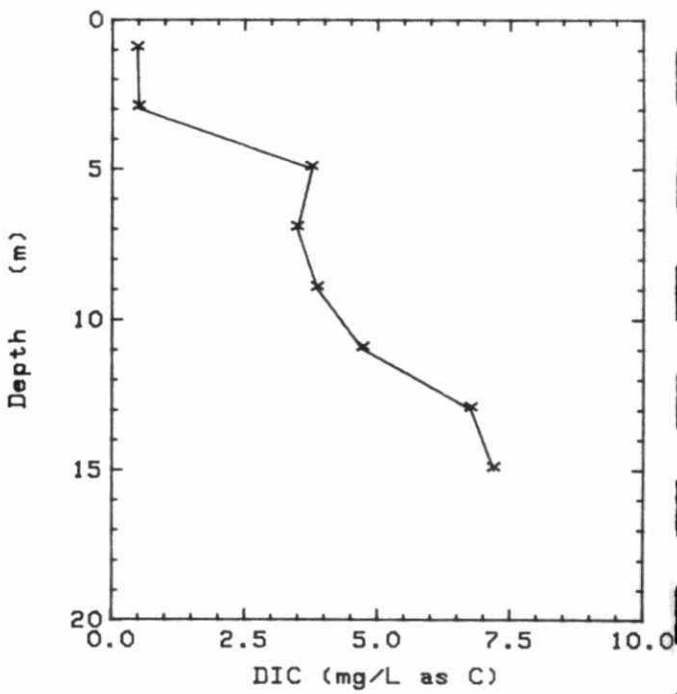
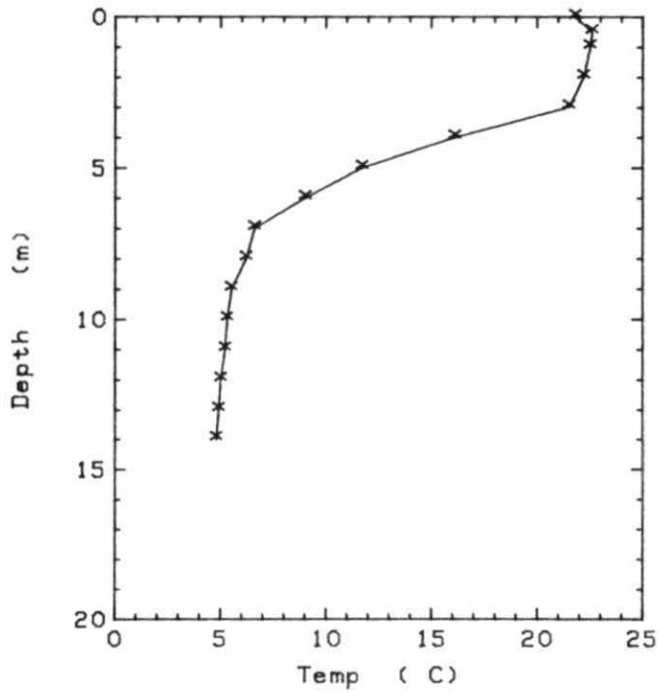


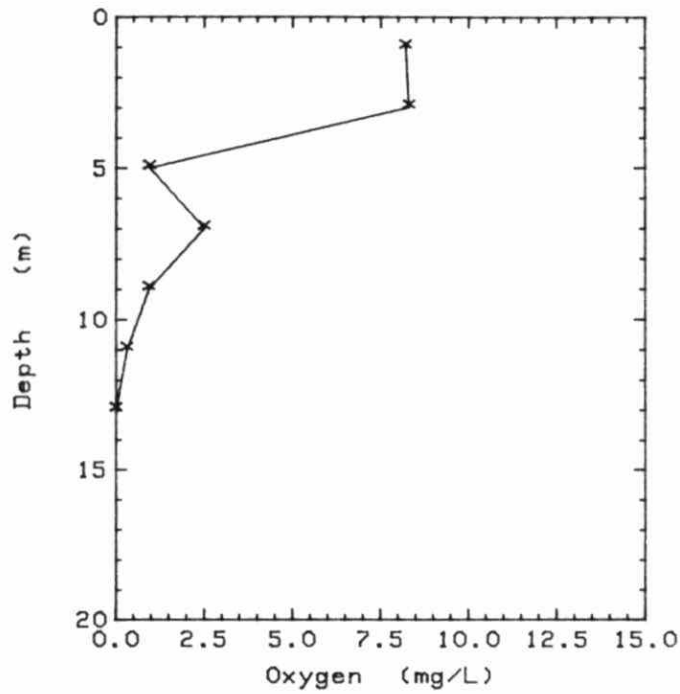



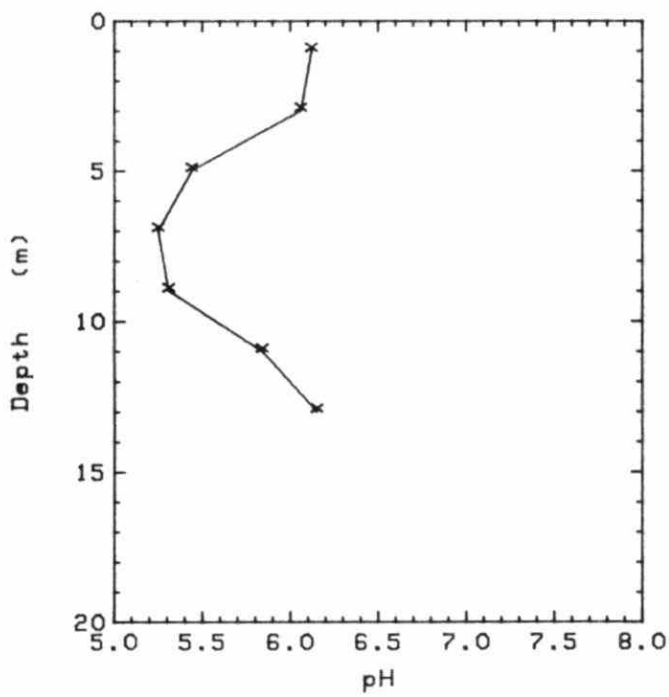



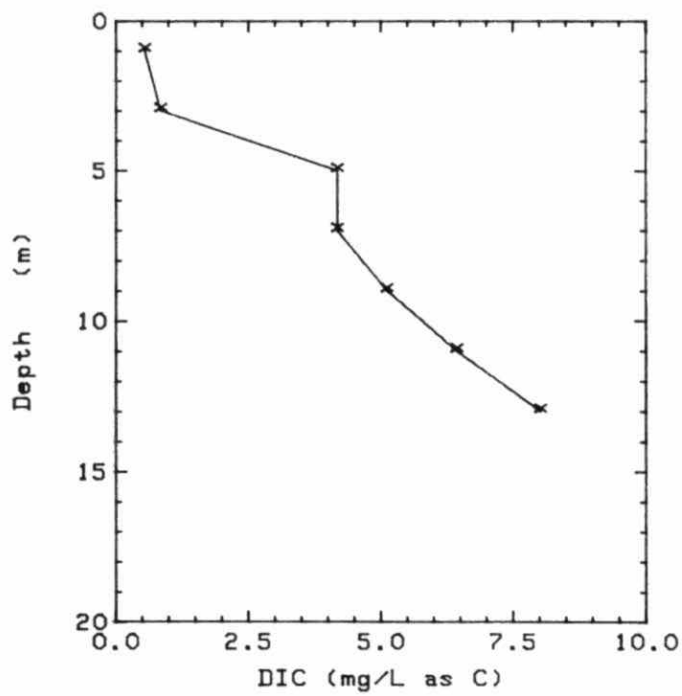



# CINDER 85.07.18

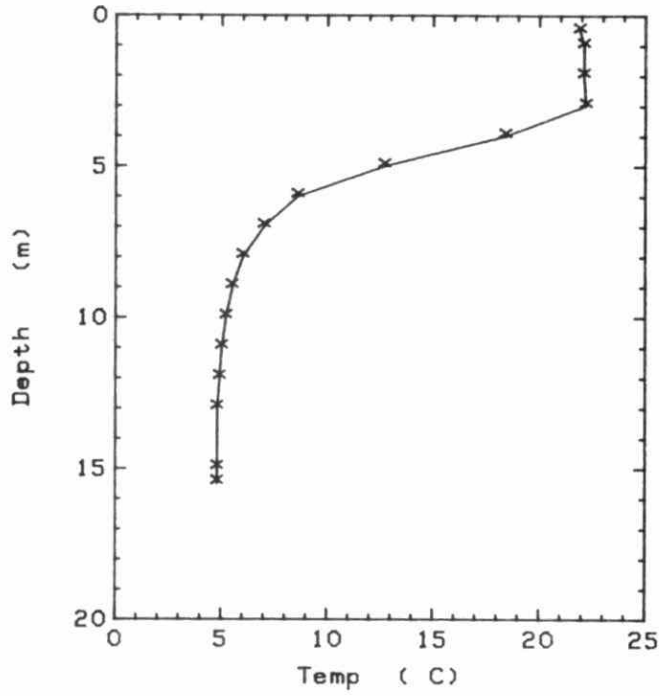


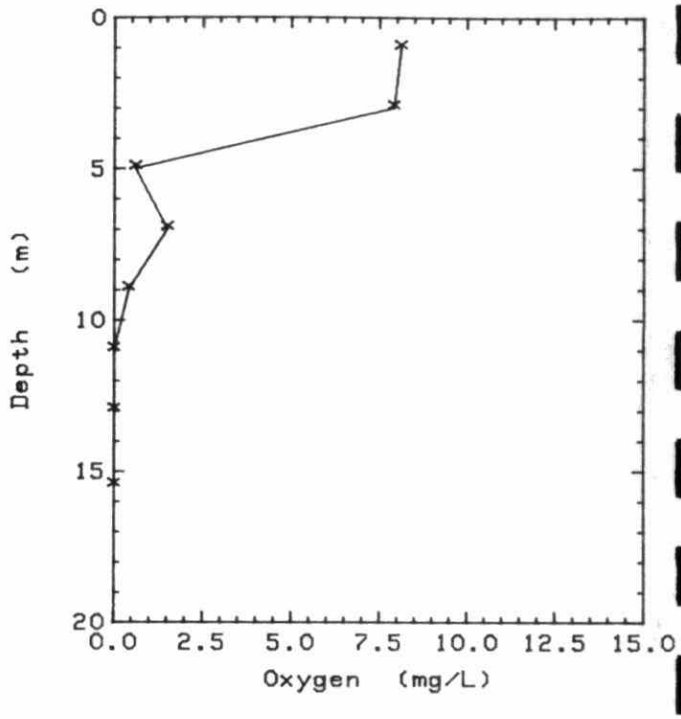



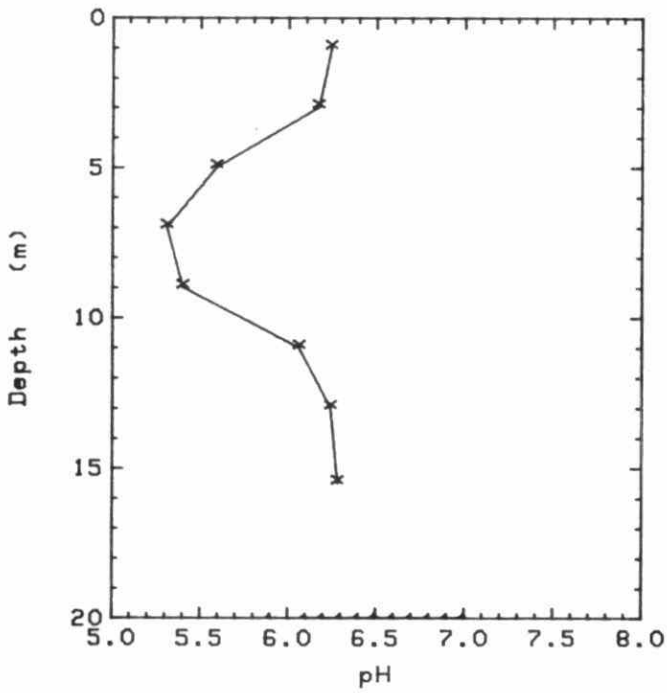



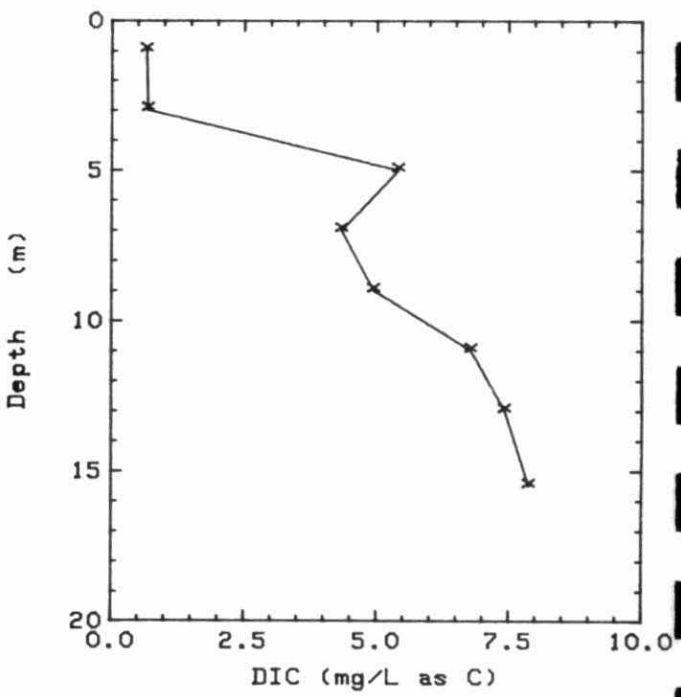



# CINDER 85.08.13

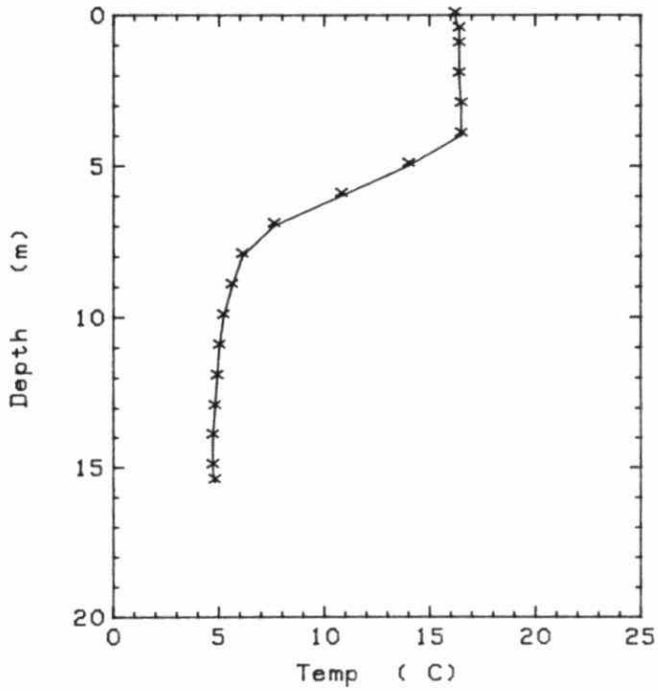


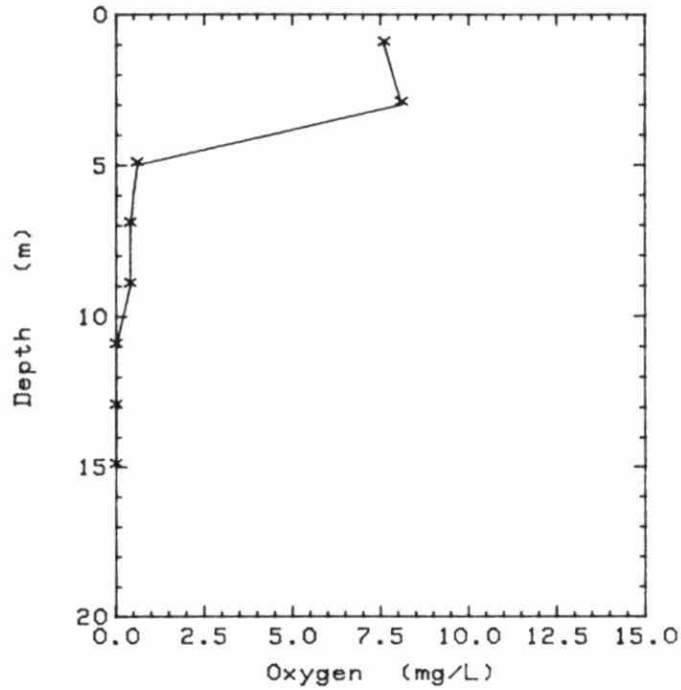



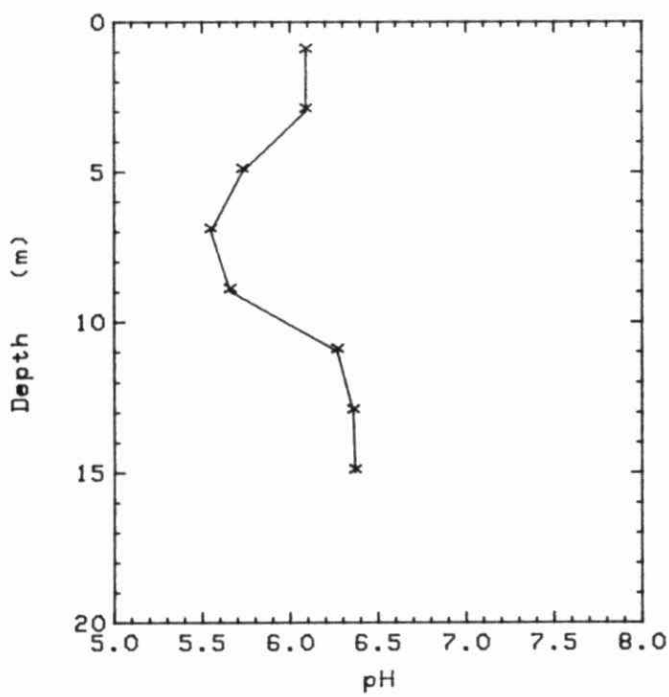



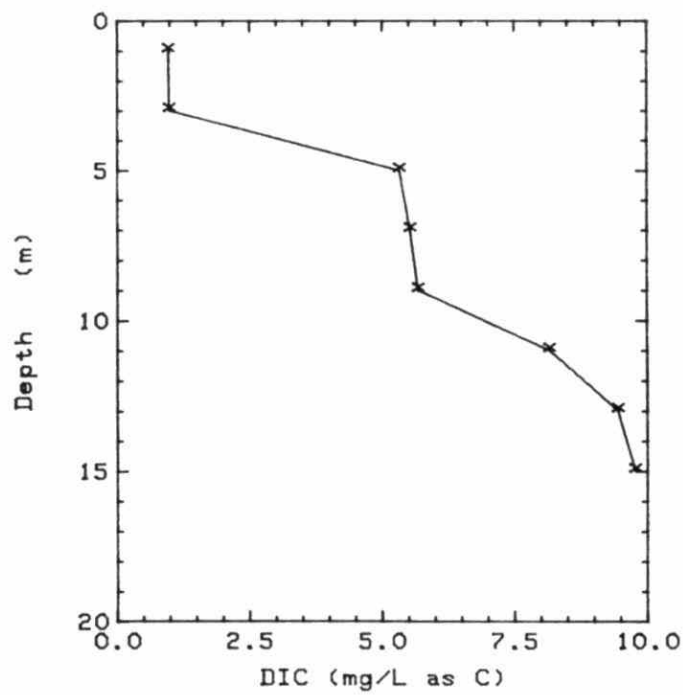



# CINDER 85.09.26



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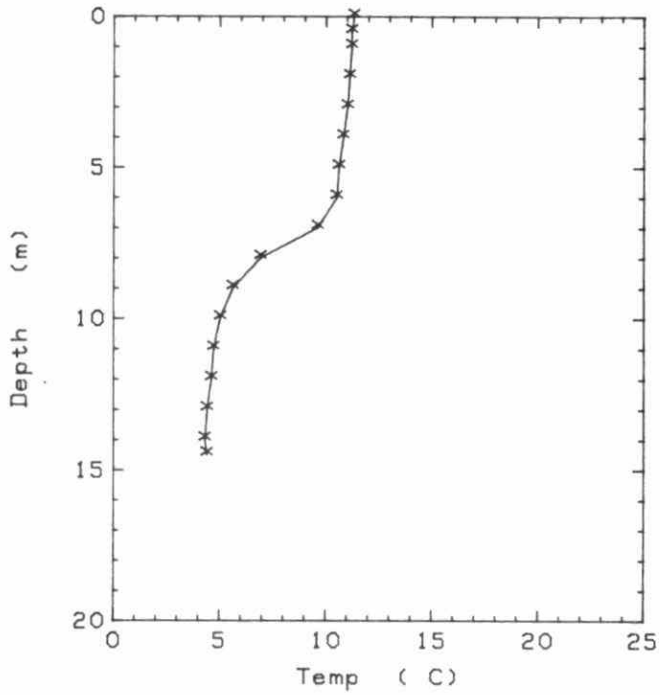
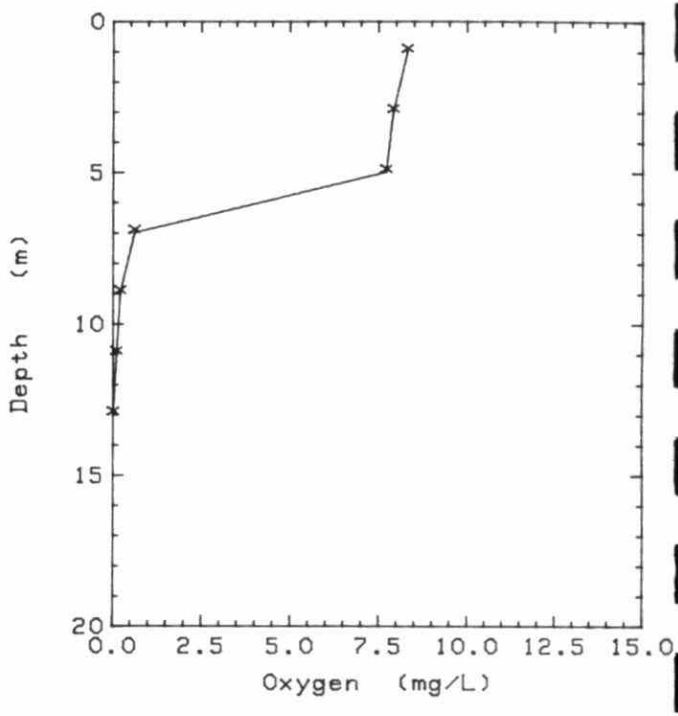
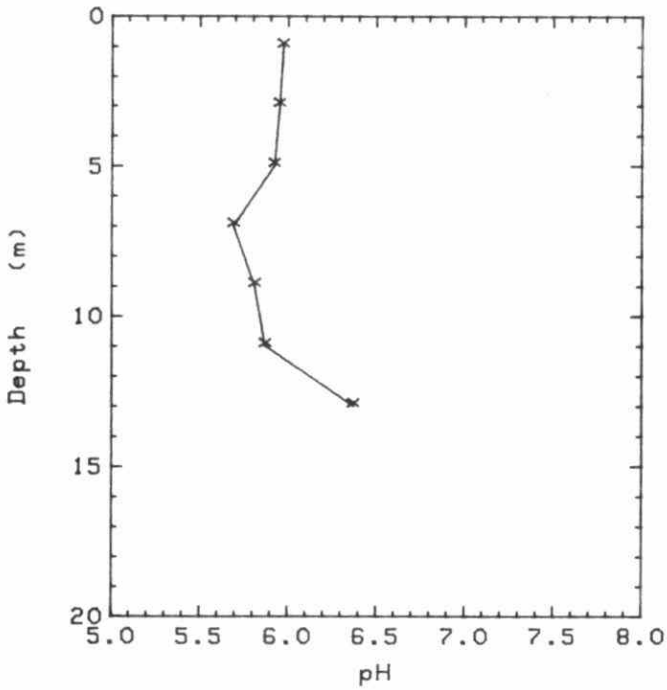
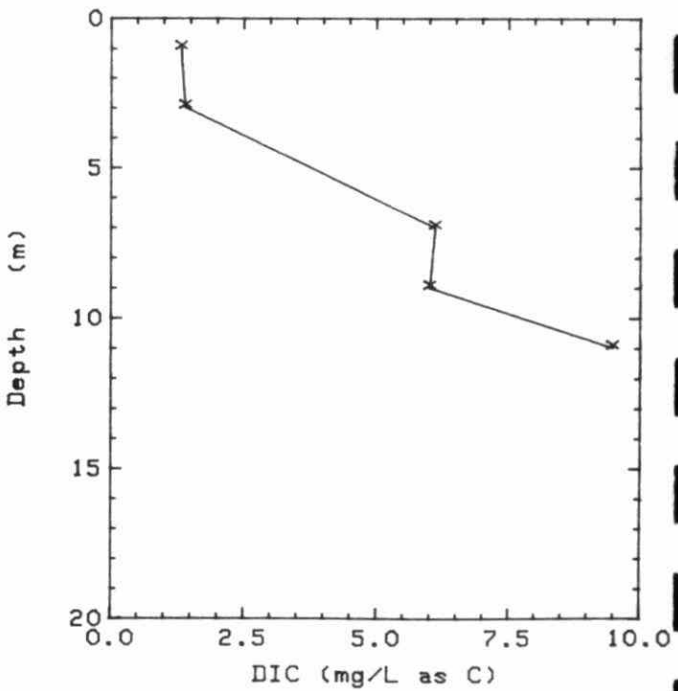
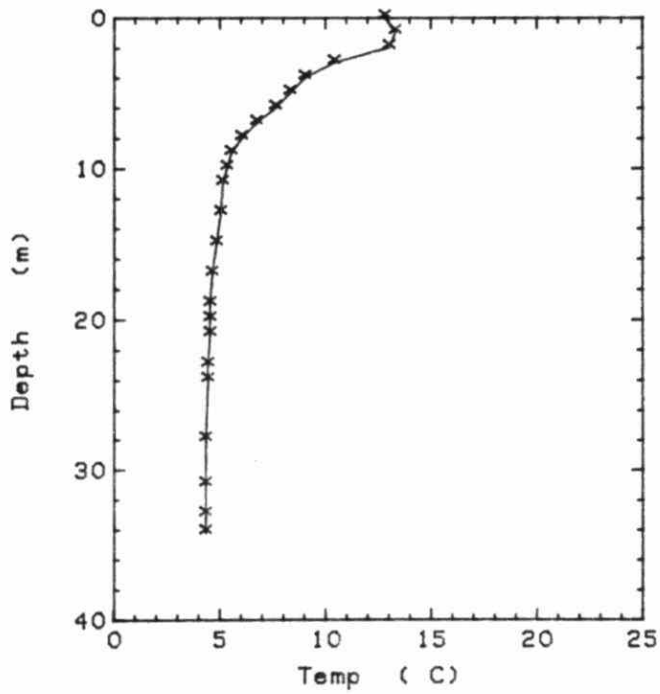


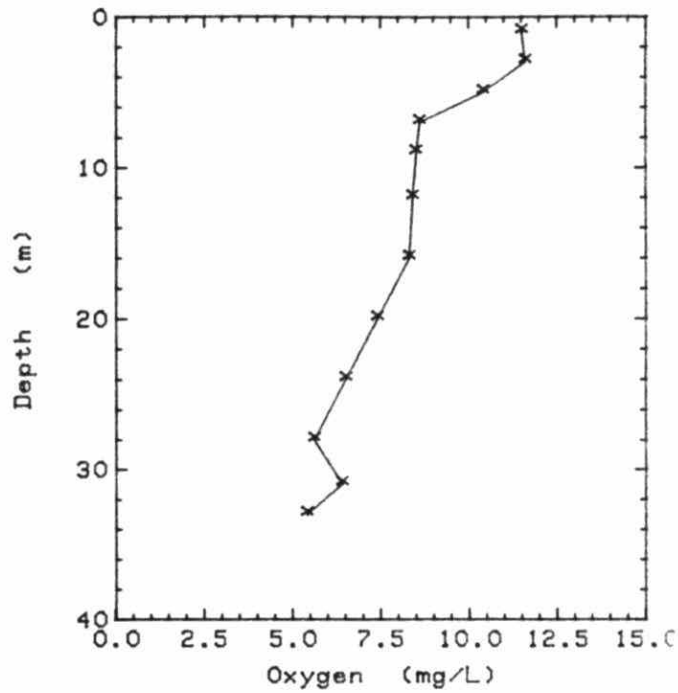



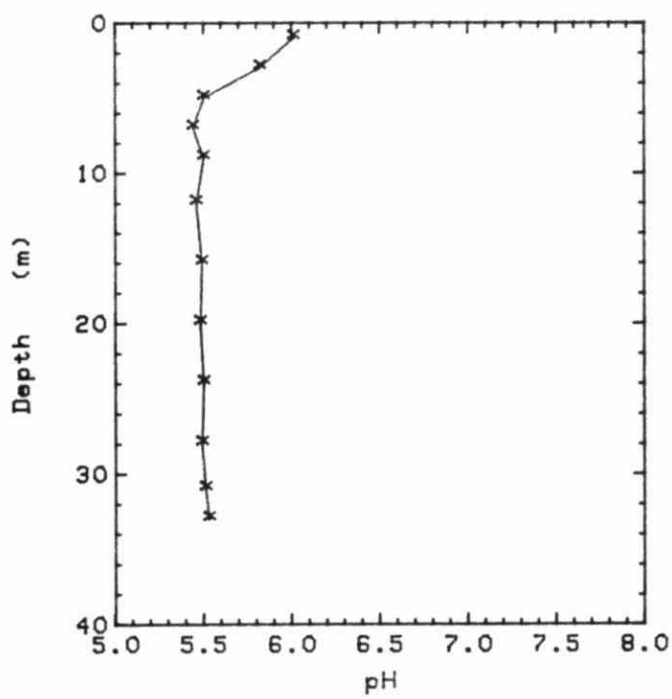



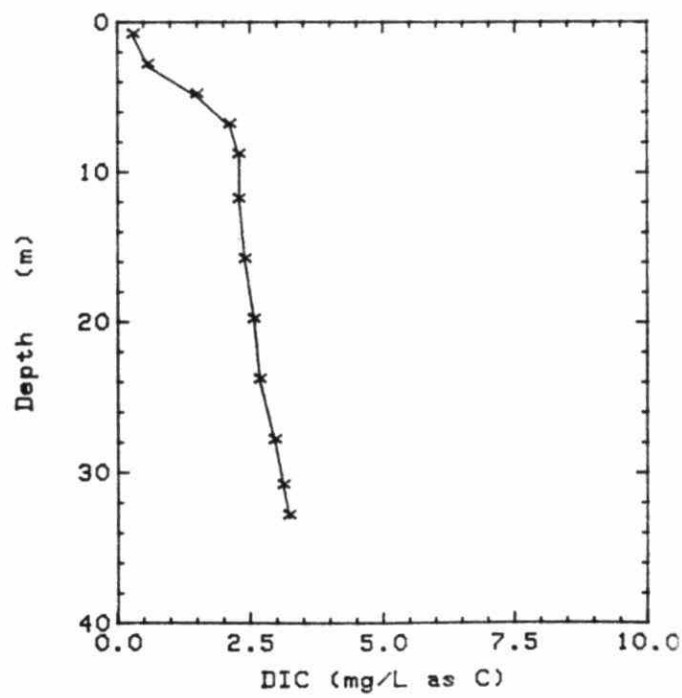



# CINDER EAST 83.05.18

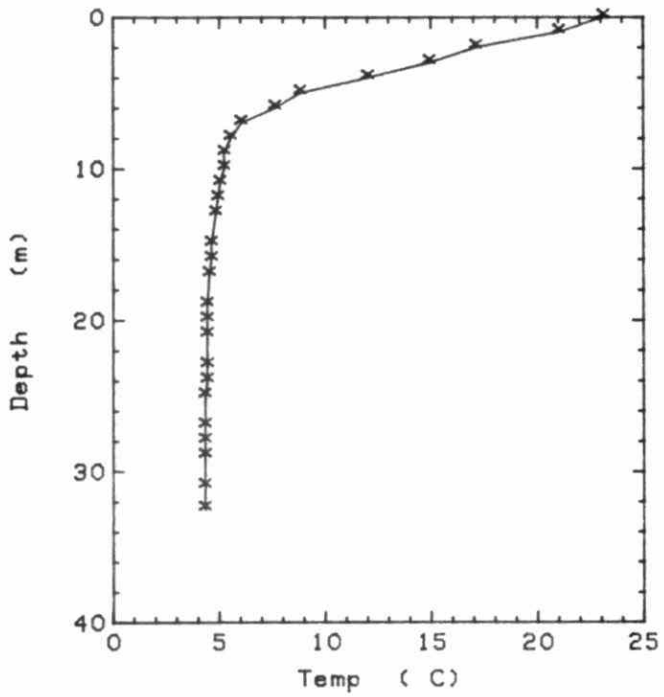


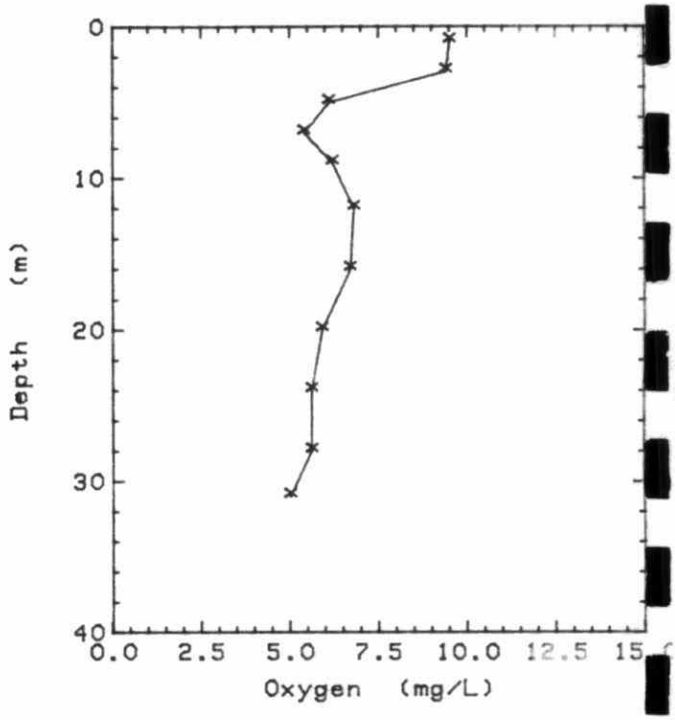



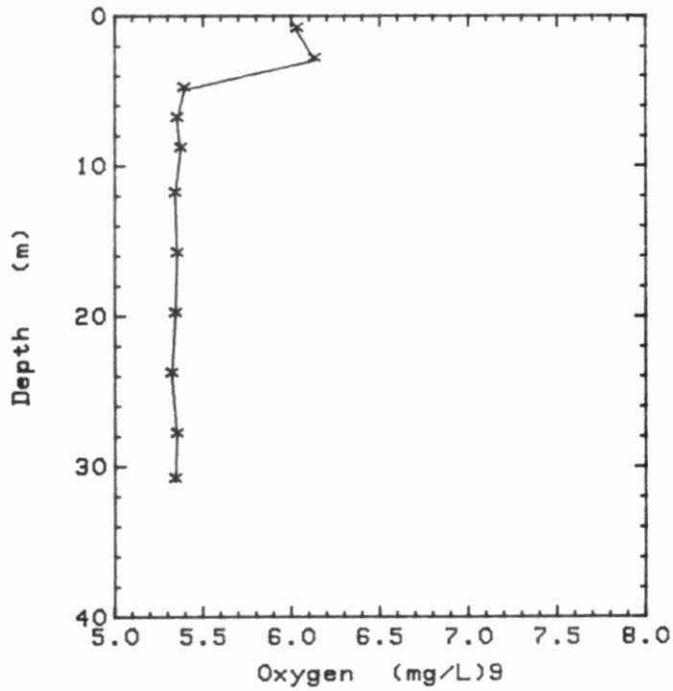



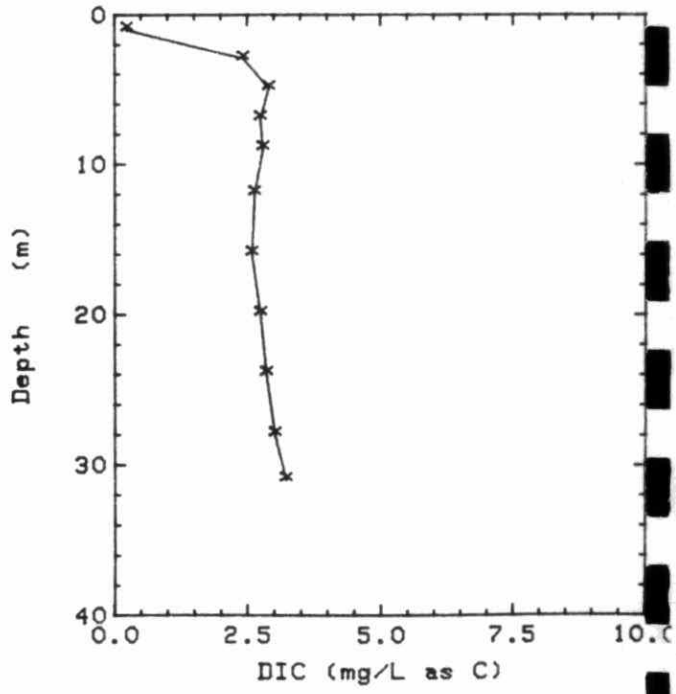



# CINDER EAST 83.06.14

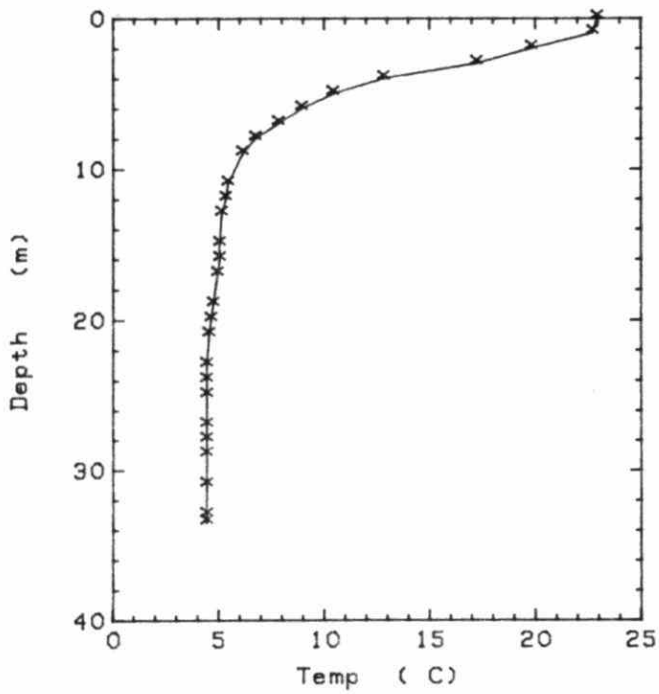


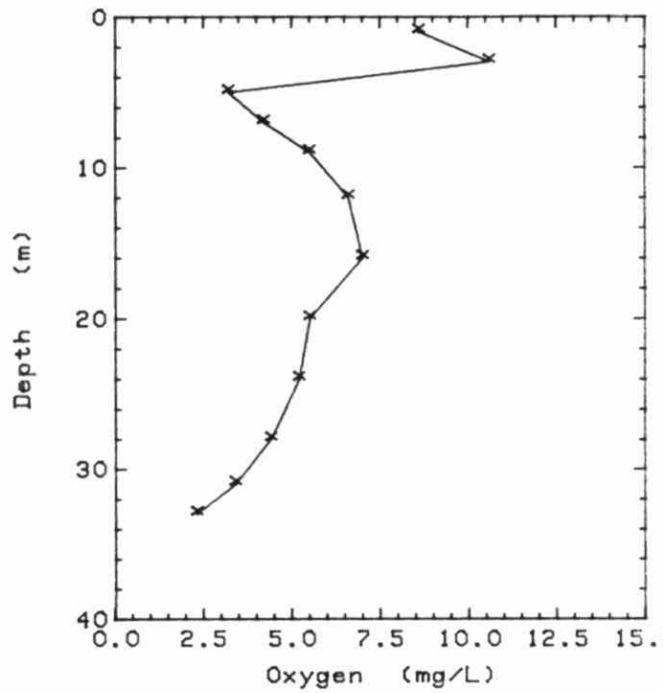



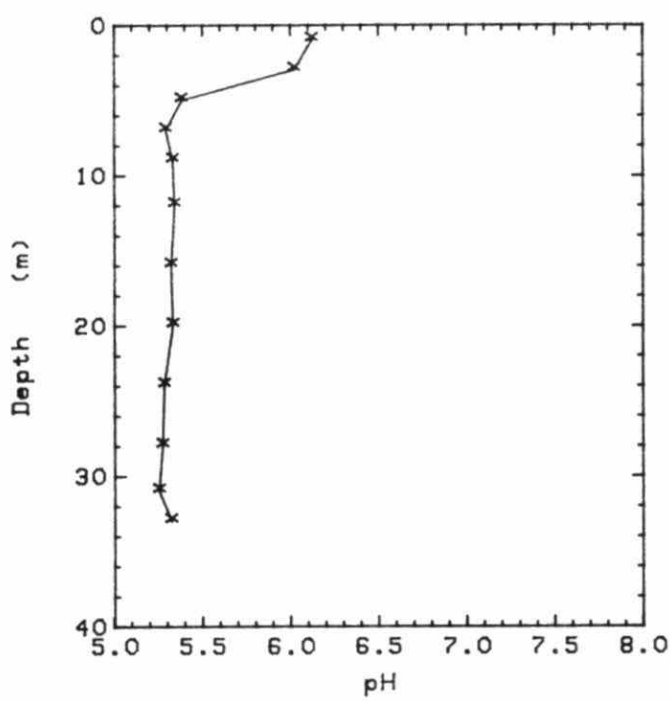



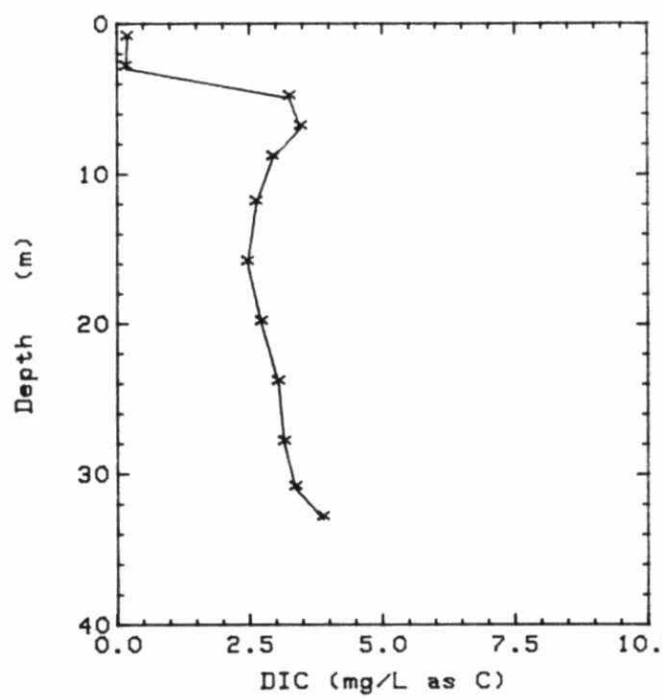



# CINDER EAST 83.07.07

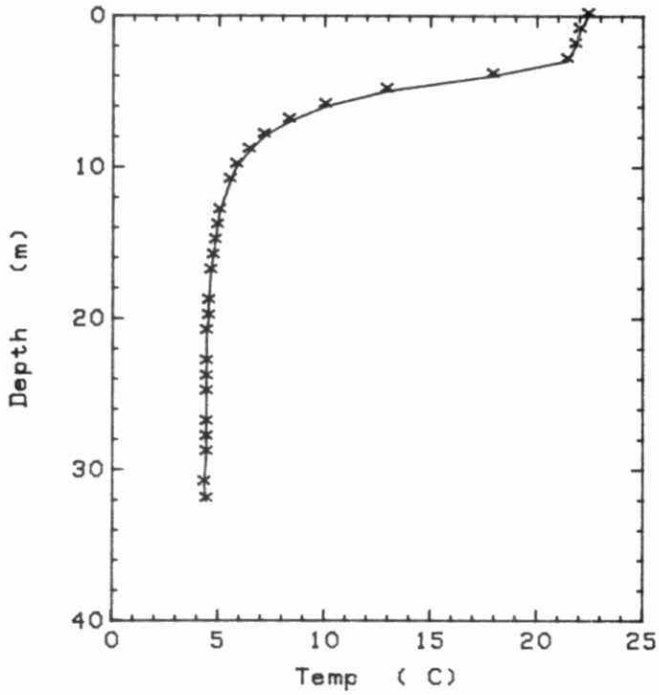


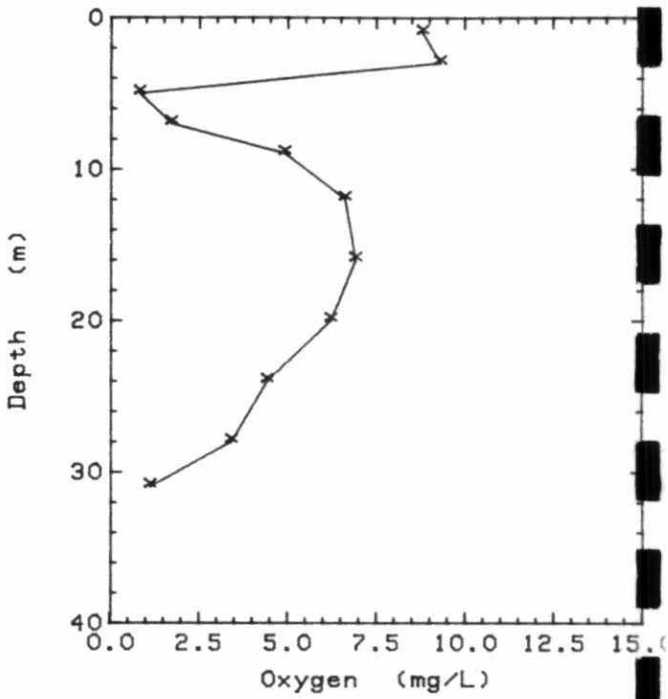



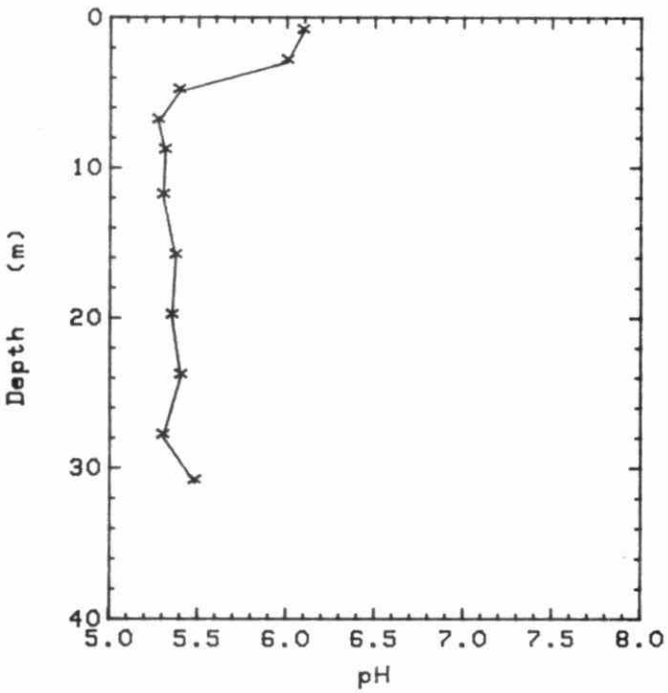



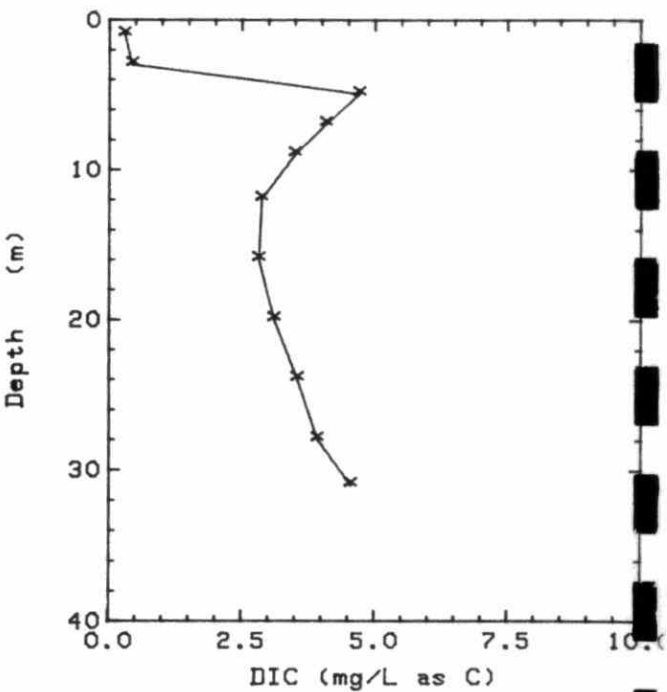



# CINDER EAST 83.08.25

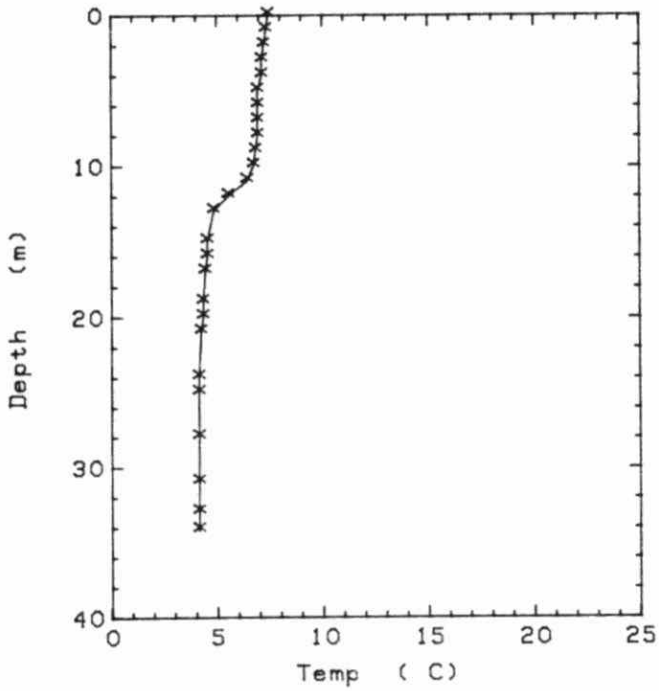


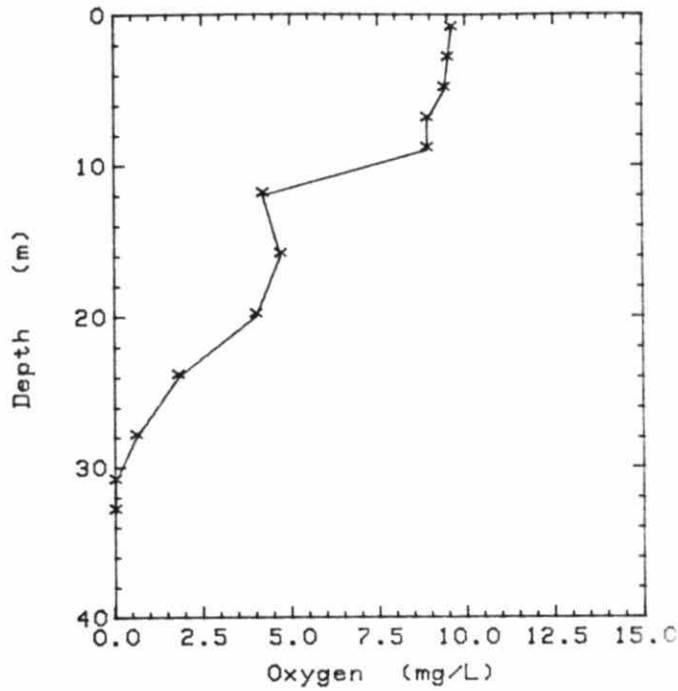



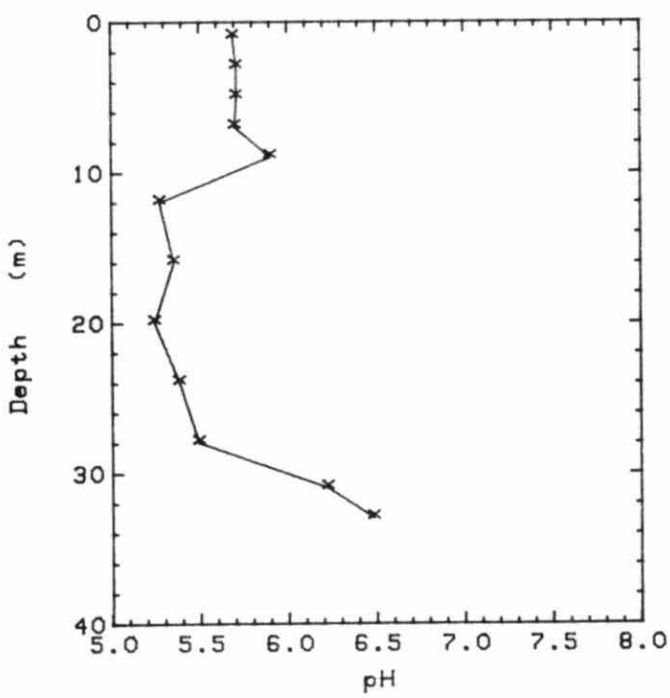



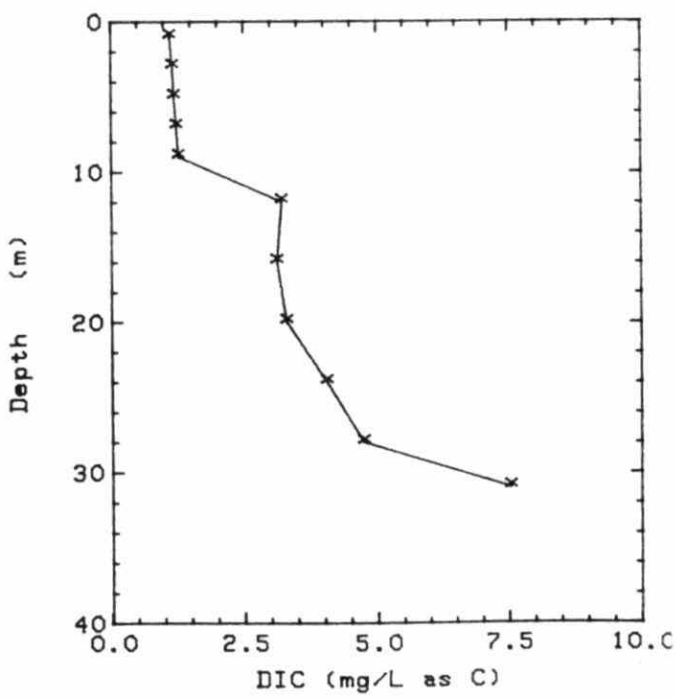



# CINDER EAST 83.11.02

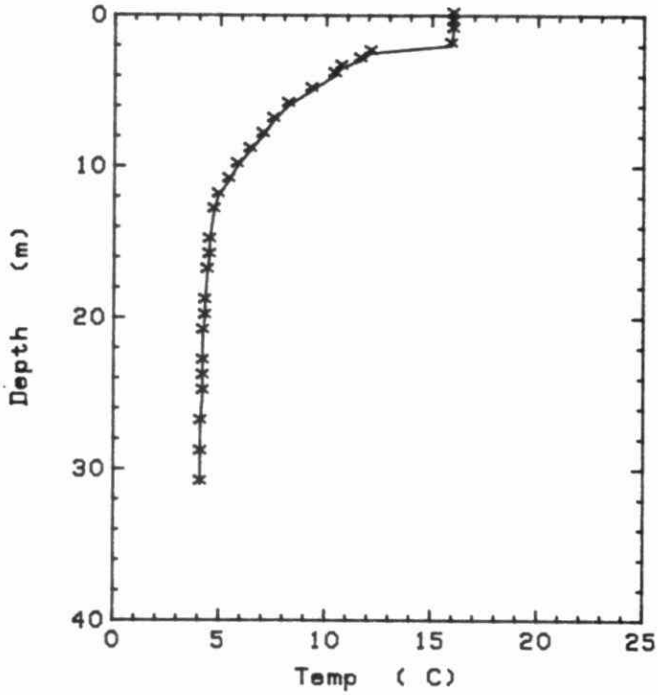


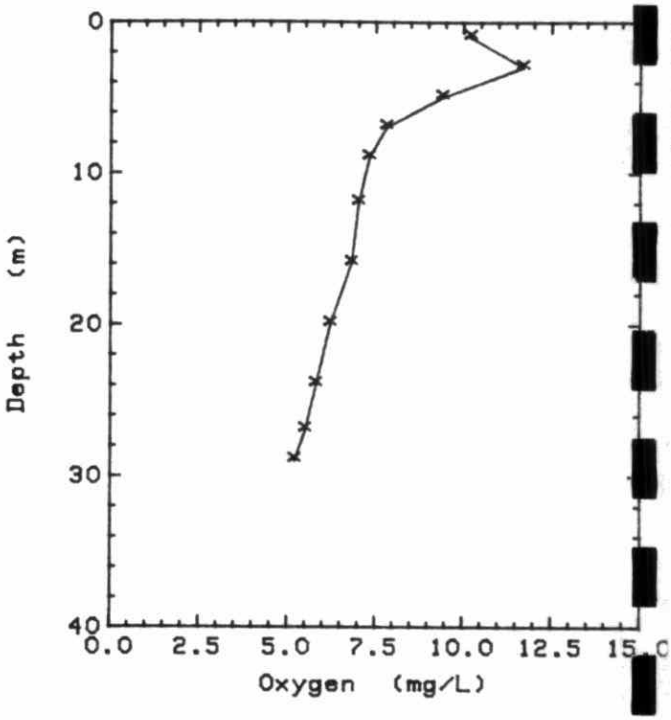



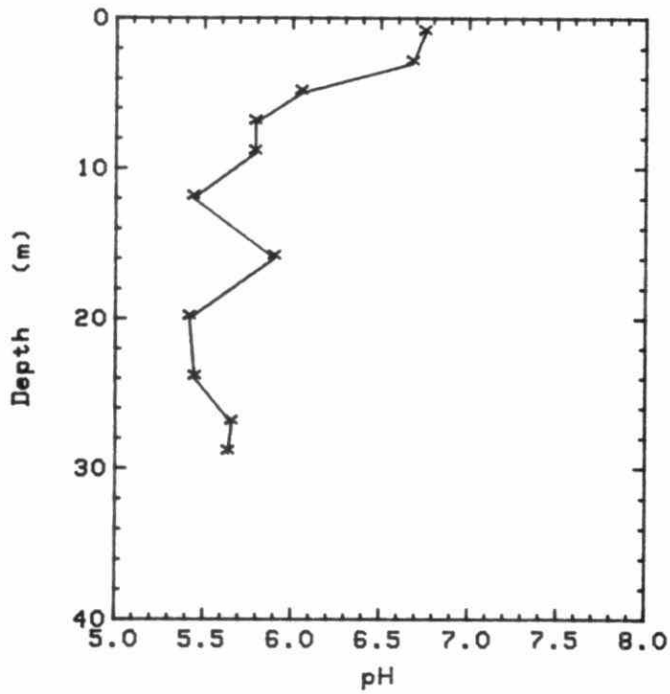



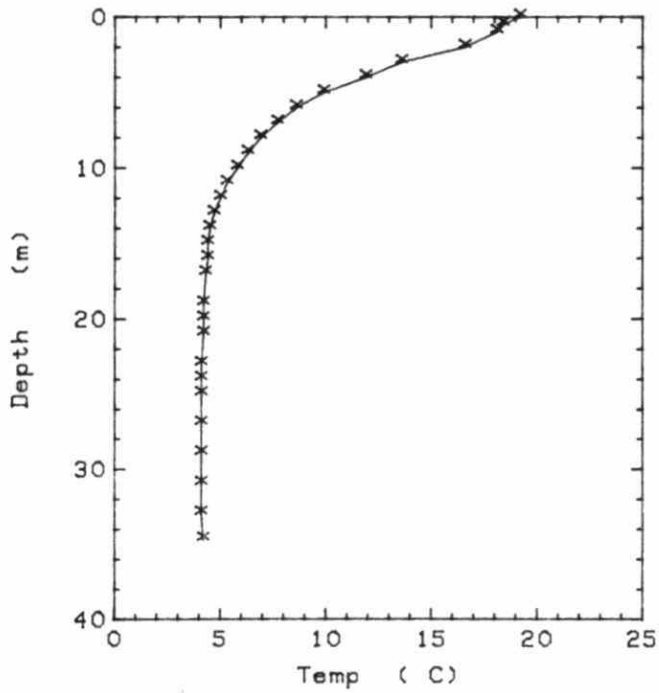
# CINDER EAST 84.05.23

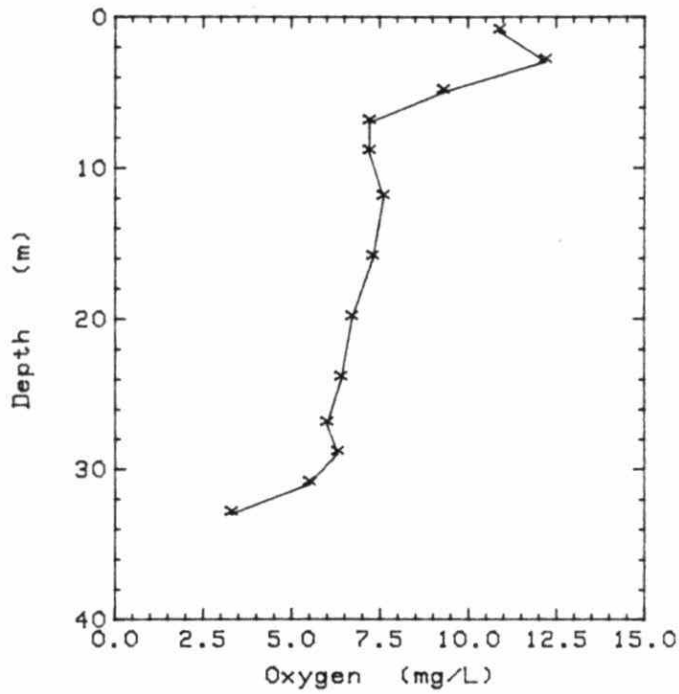


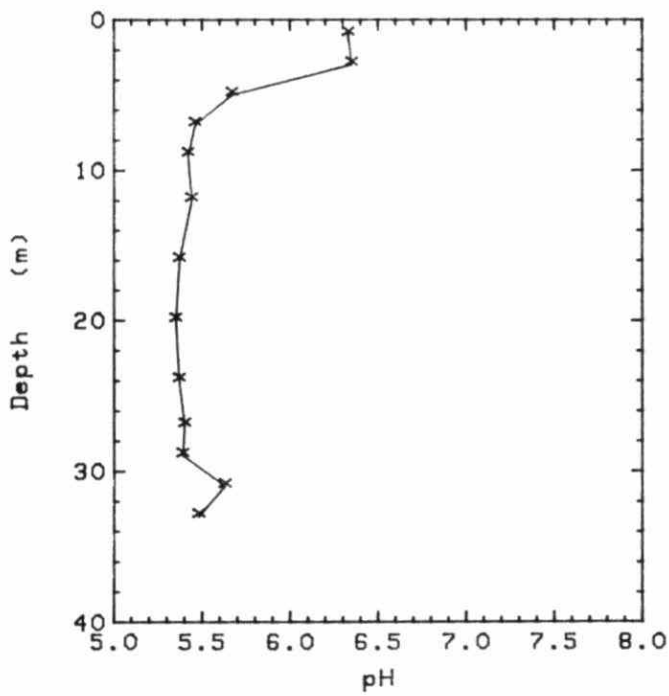



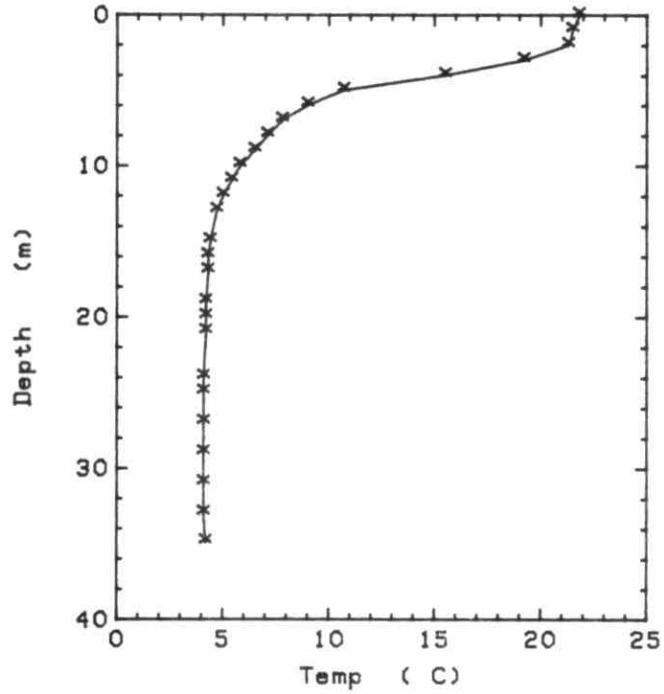
# CINDER EAST 84.06.05

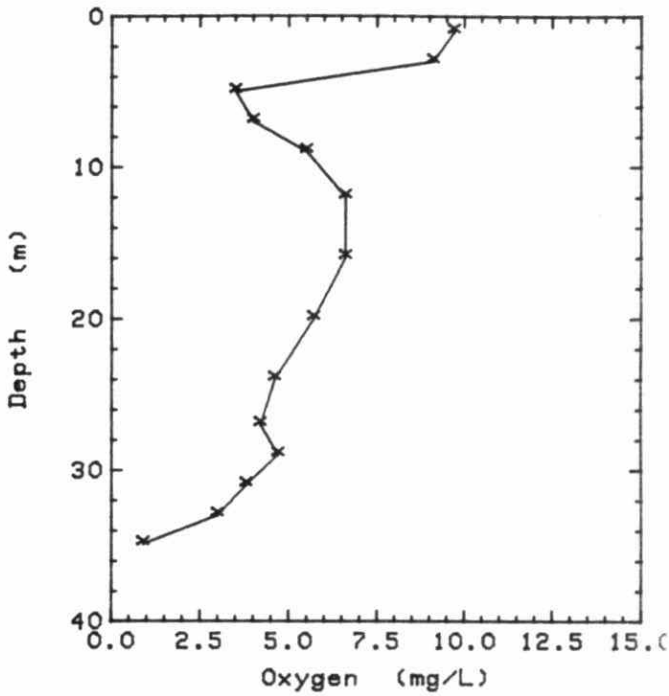


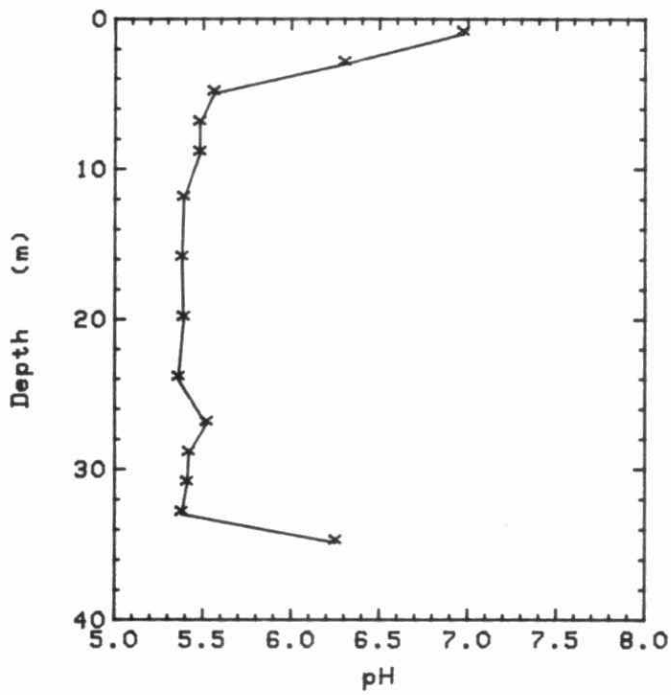



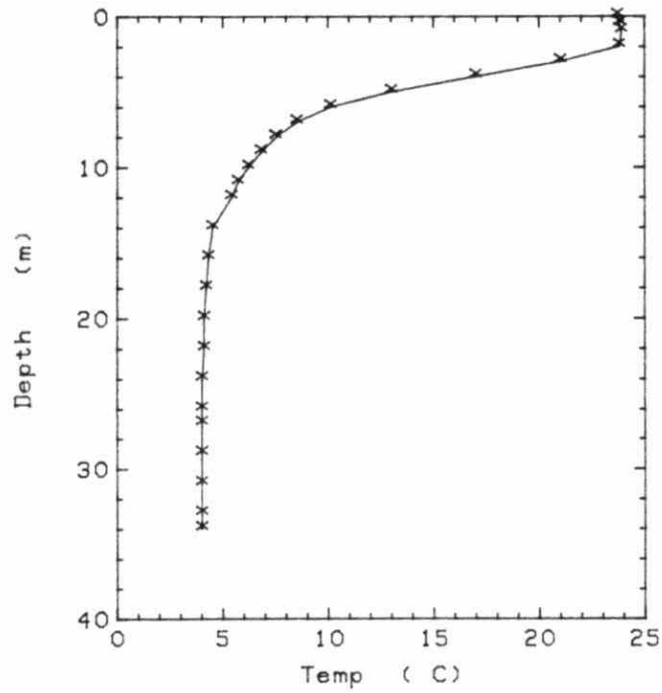
# CINDER EAST 84.07.12

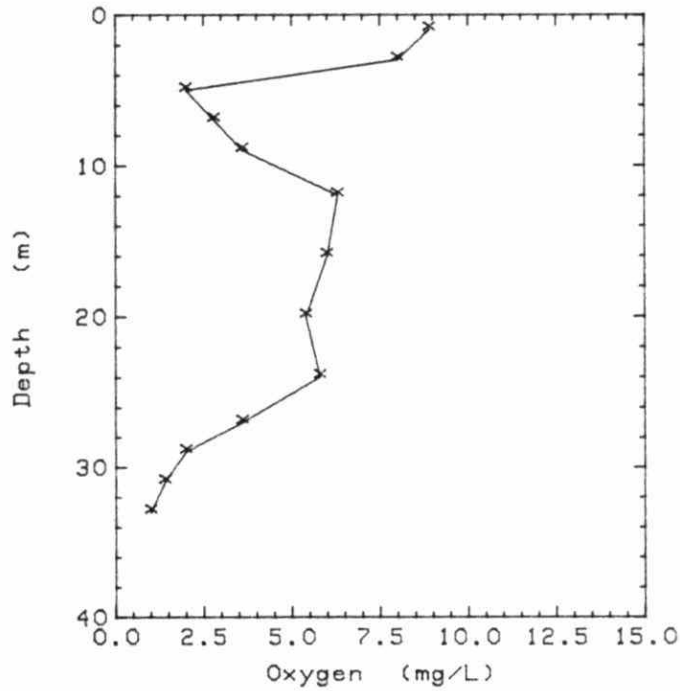


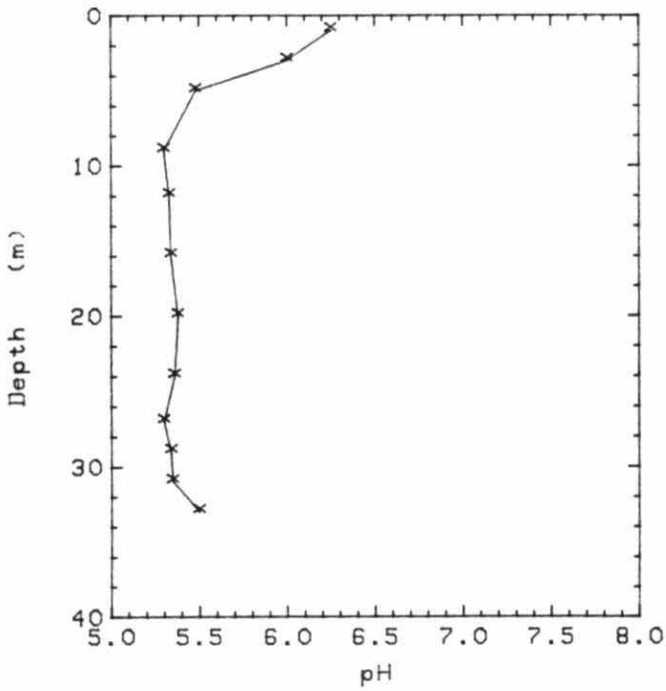



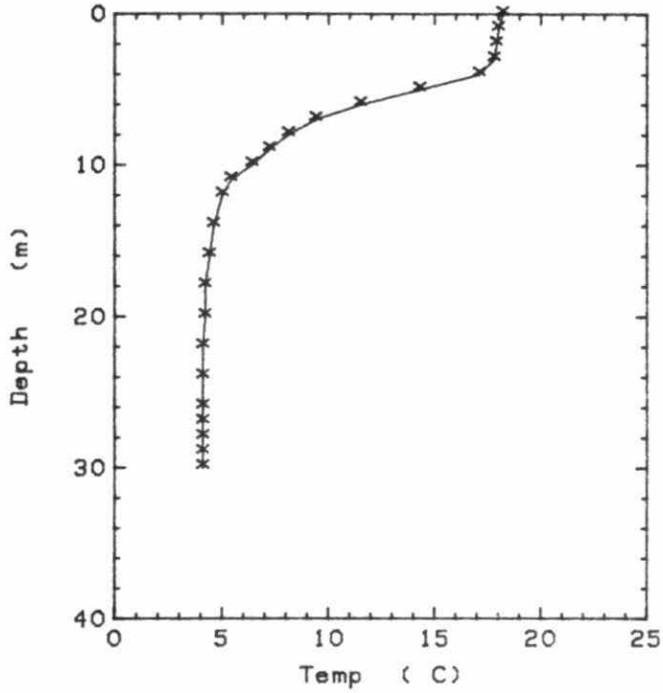
# CINDER EAST 84.08.13

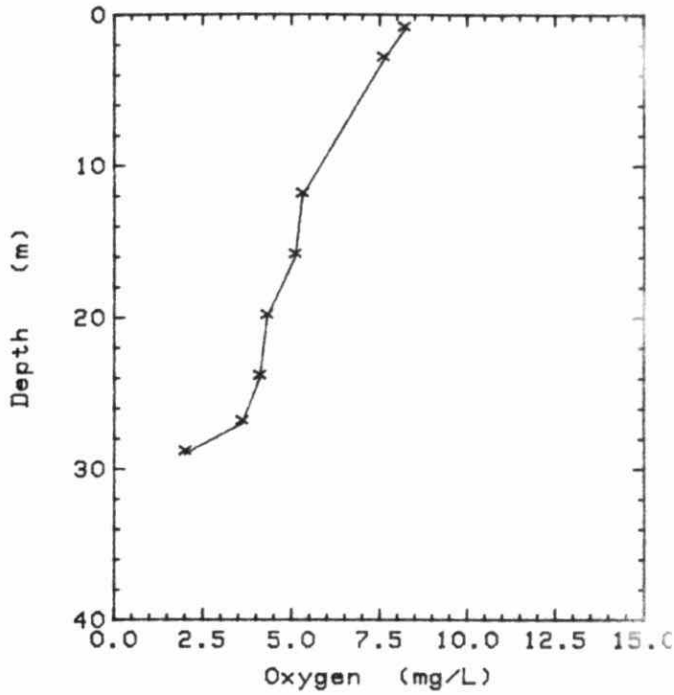


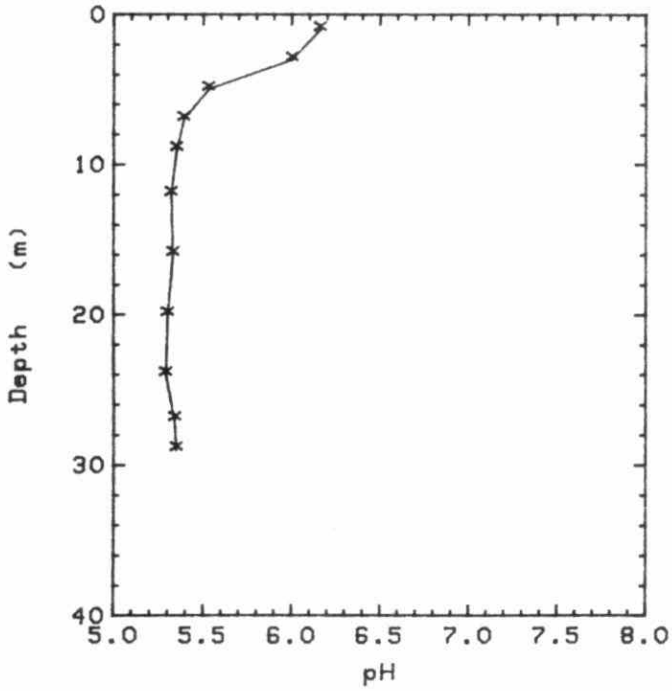



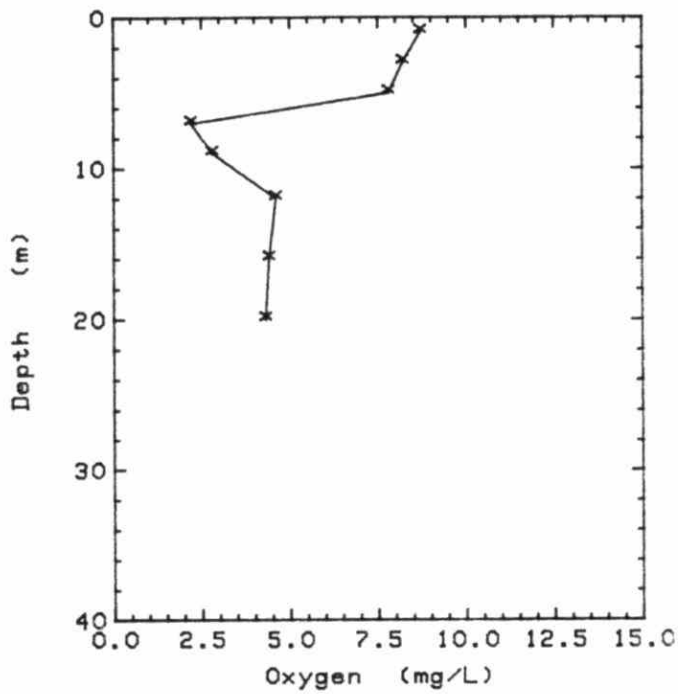
# CINDER EAST 84.09.10

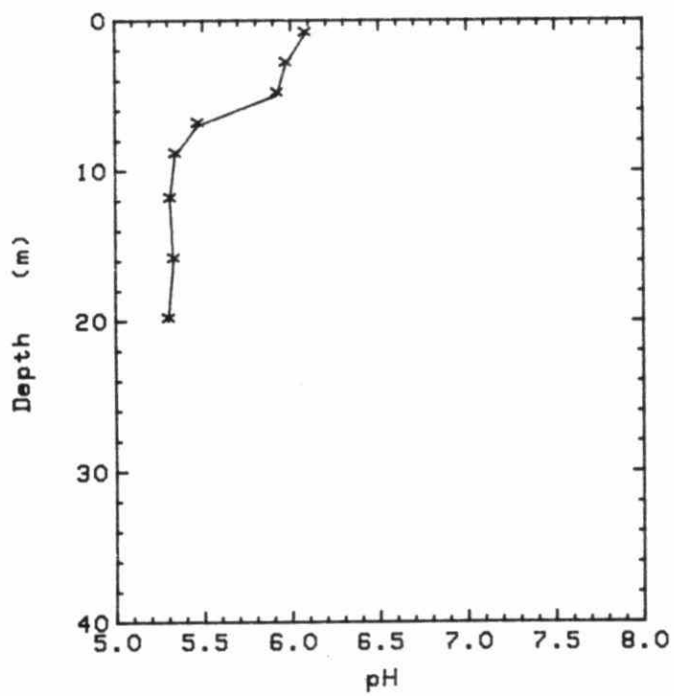


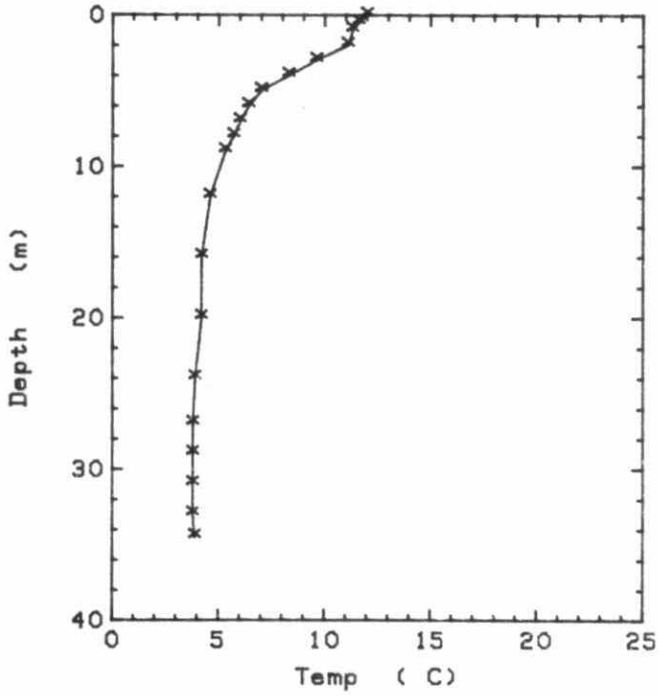



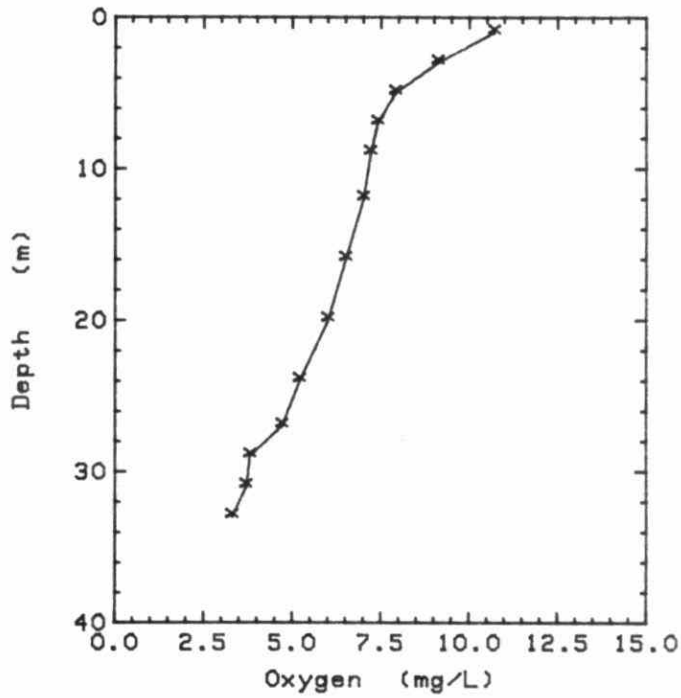
# CINDER EAST 84.10.10

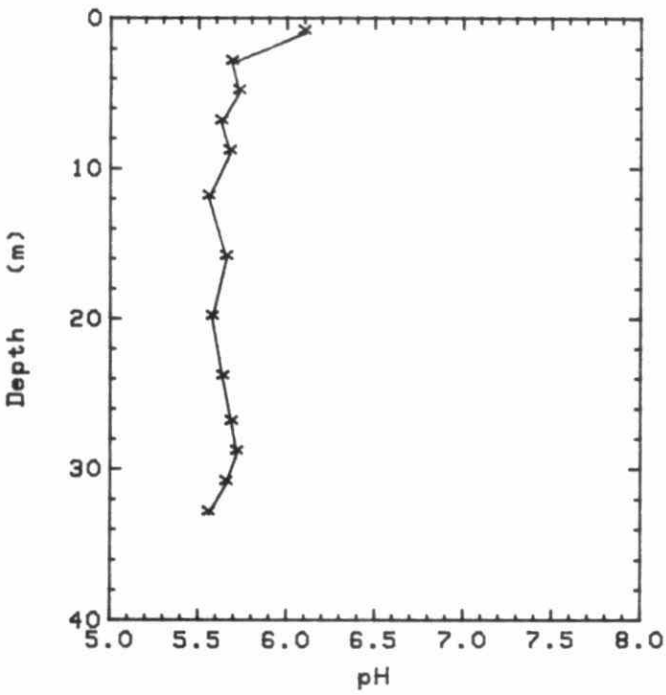


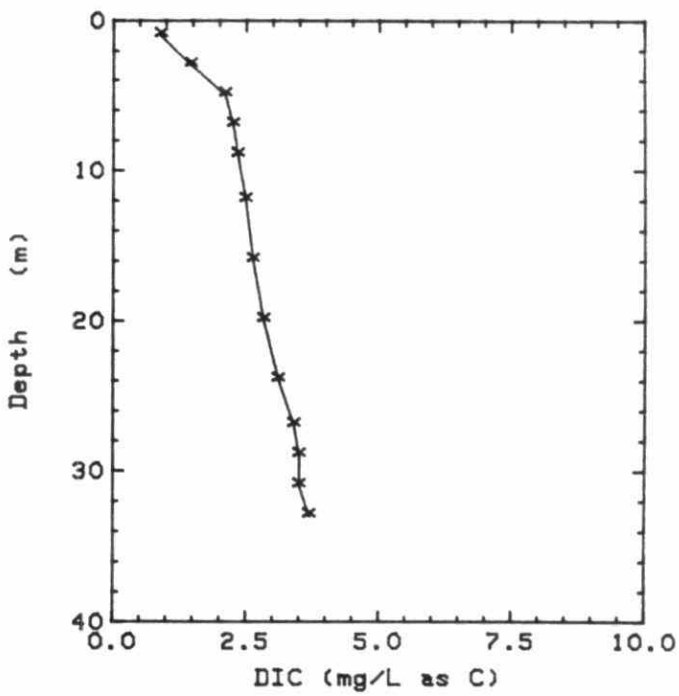



# CINDER EAST 85.05.09

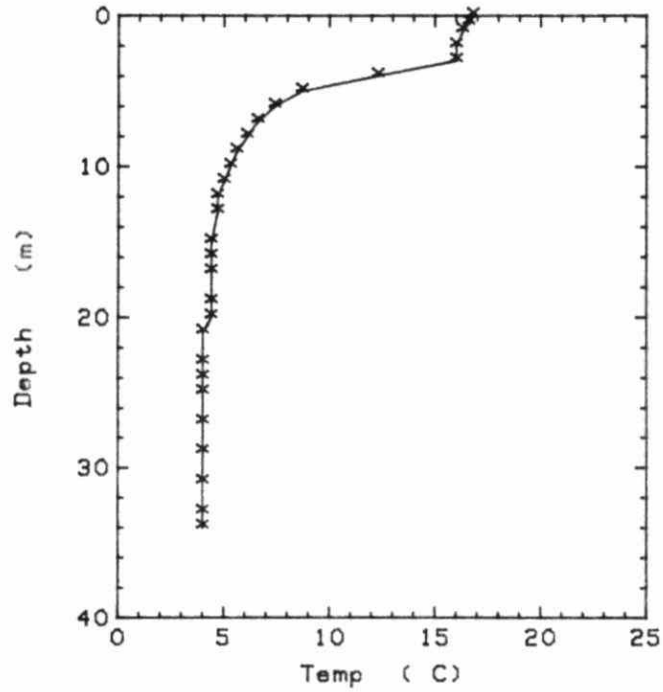


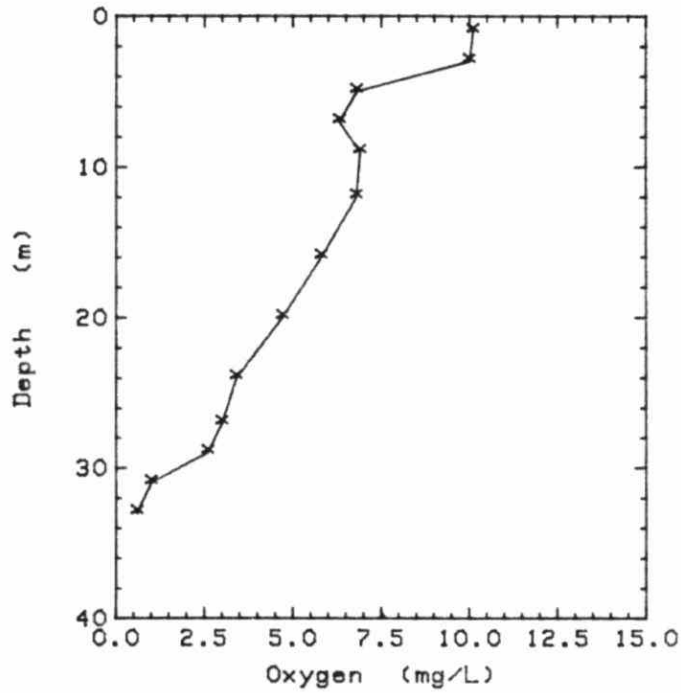



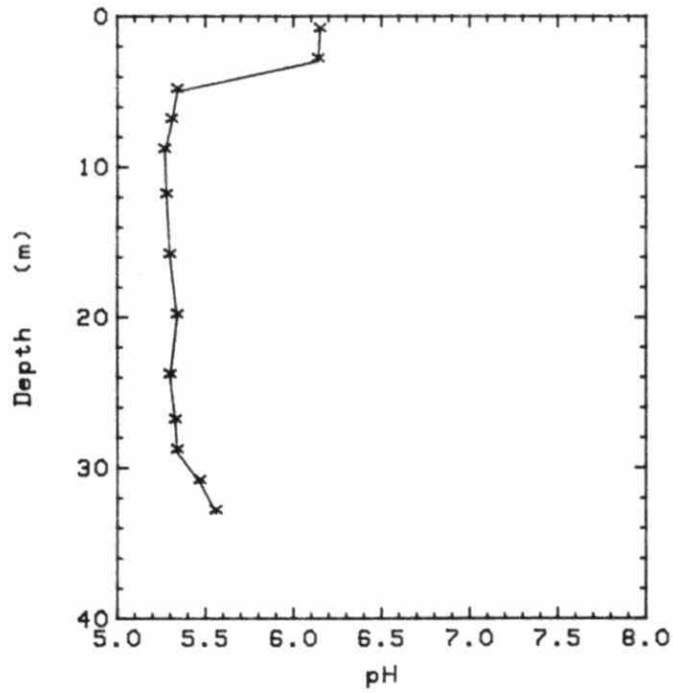



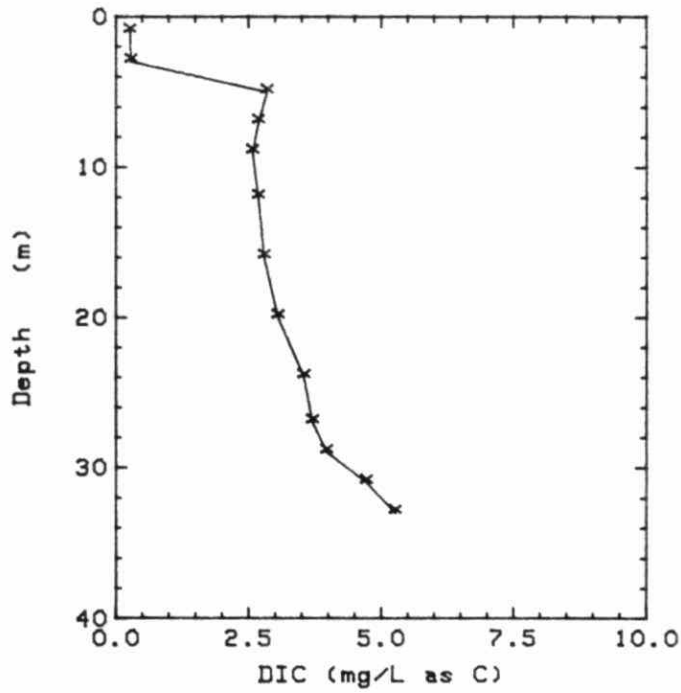



# CINDER EAST 85.06.20

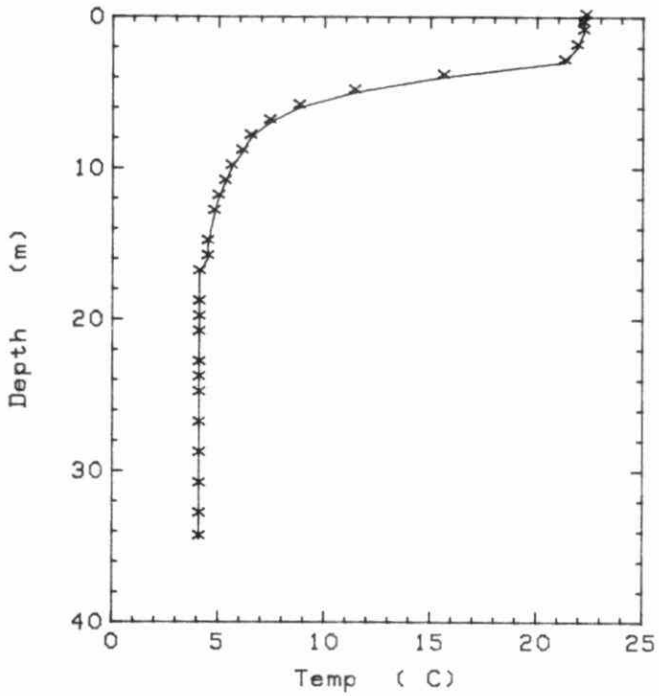


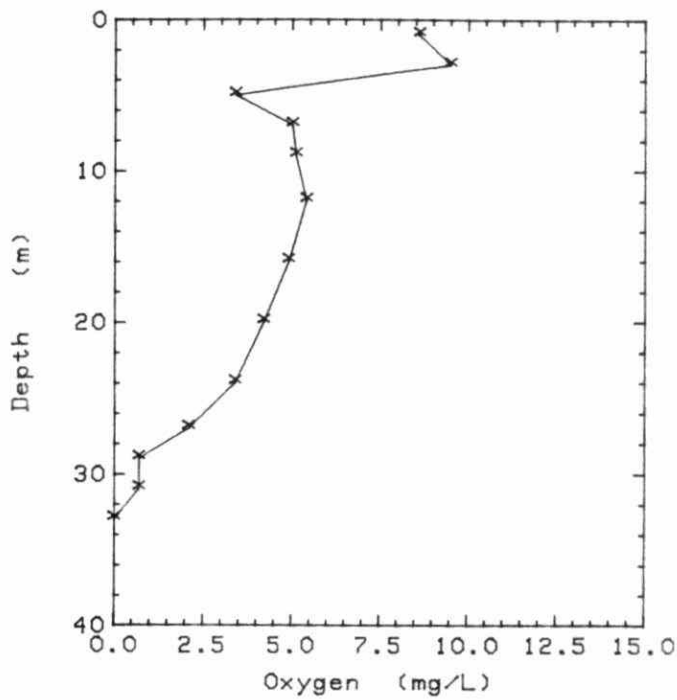



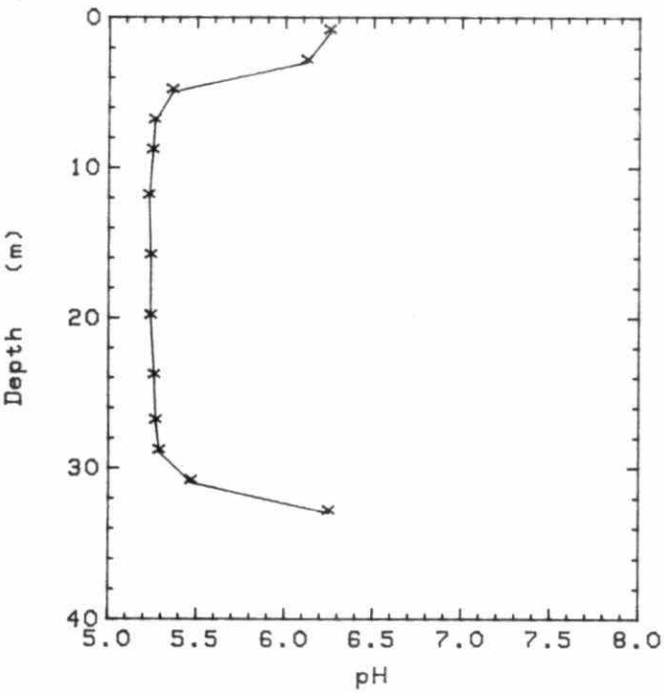



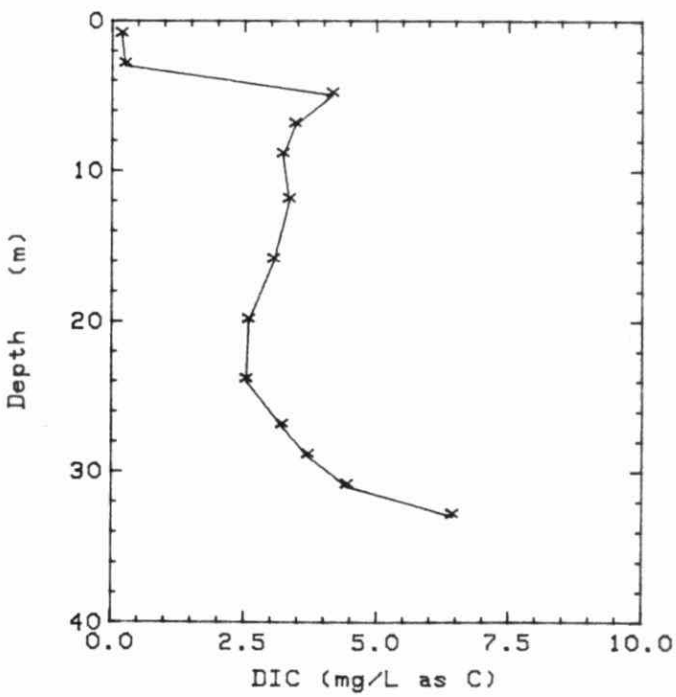



# CINDER EAST 85.07.18

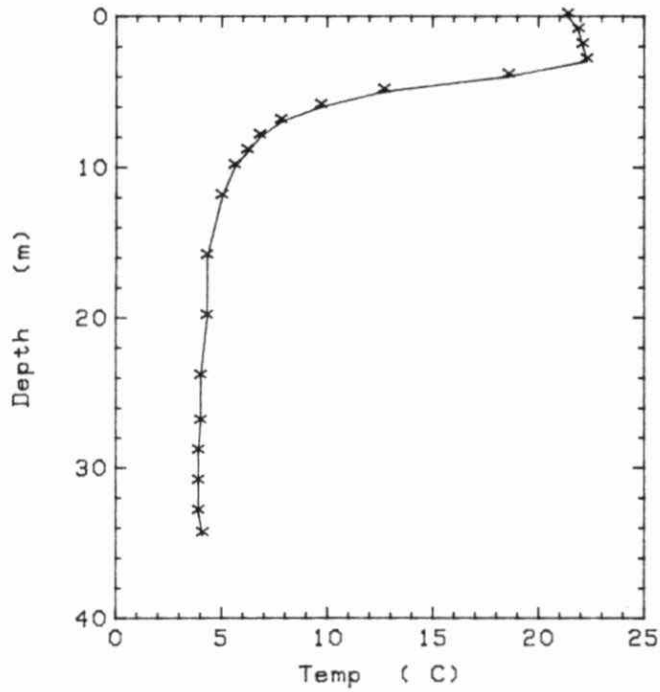


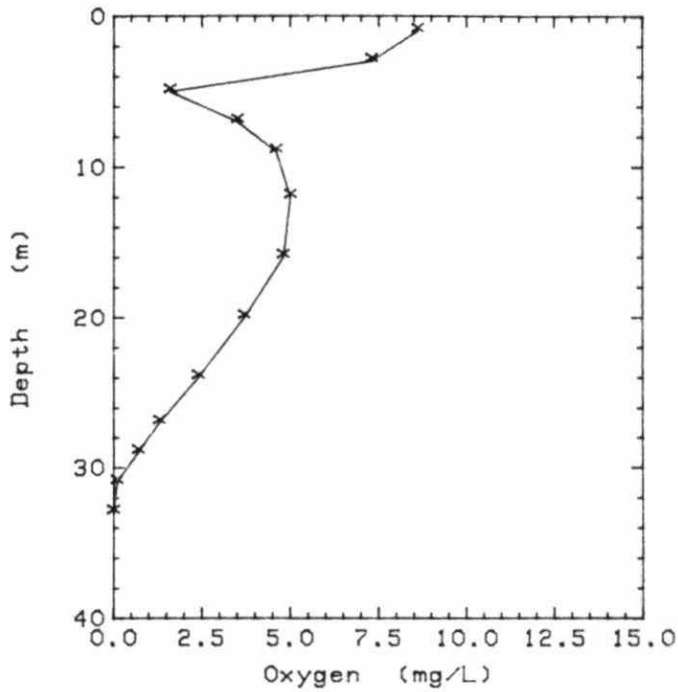



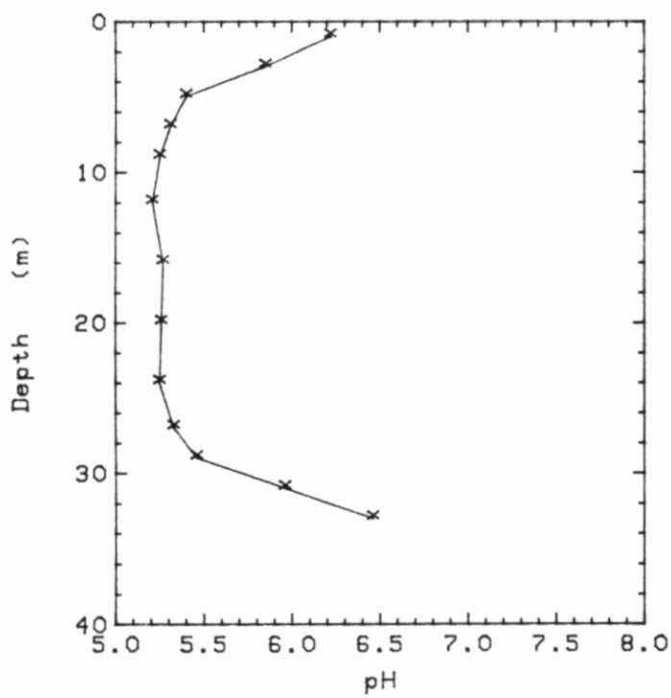



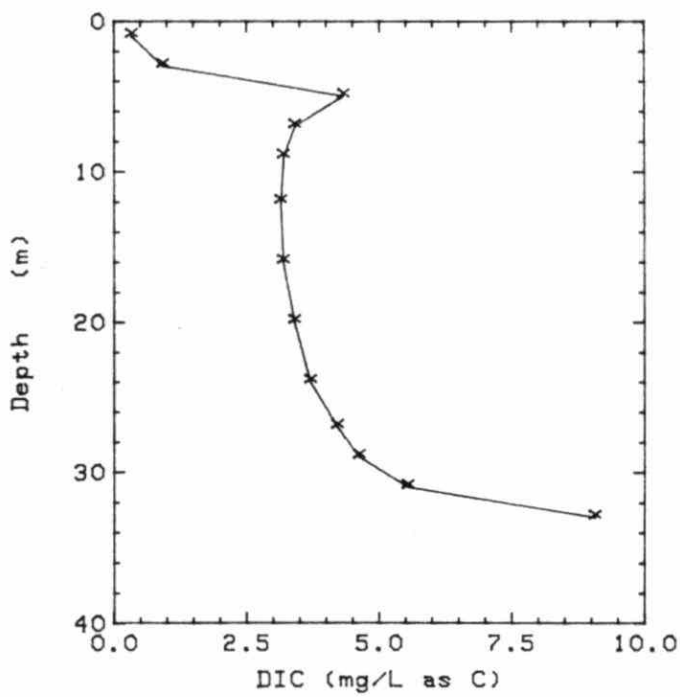



# CINDER EAST 85.08.13

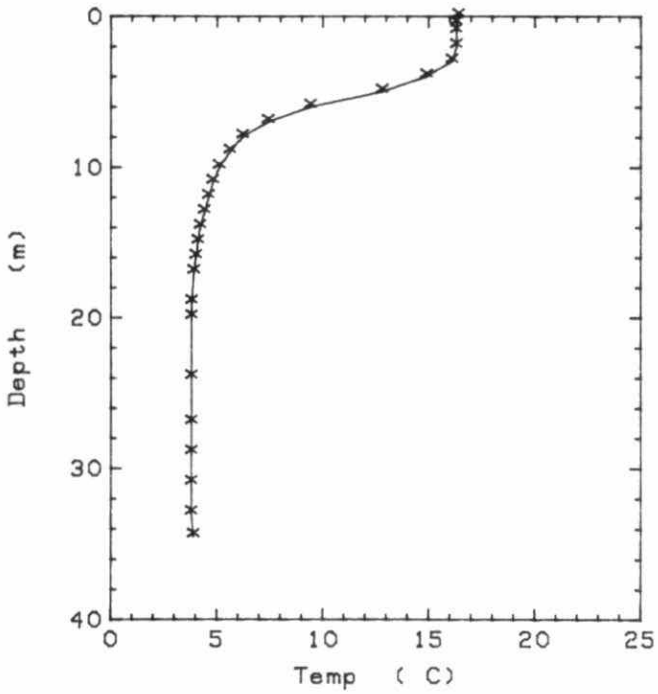


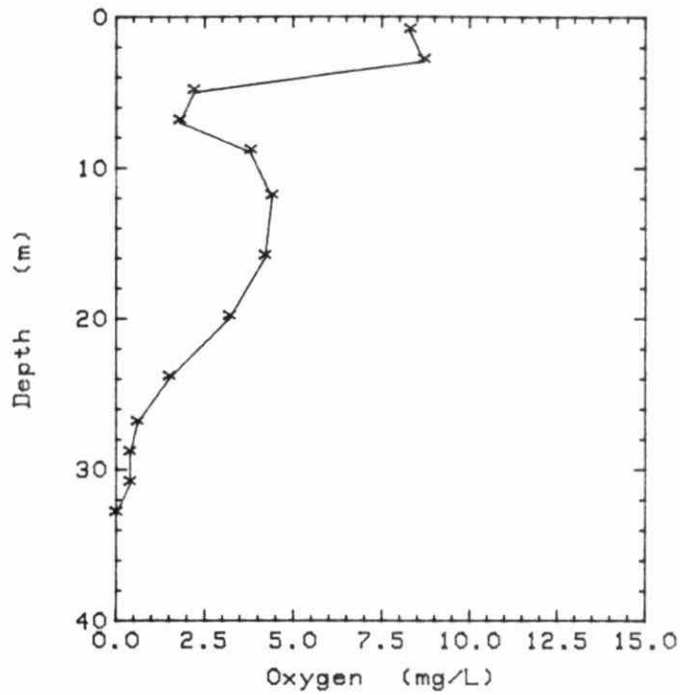



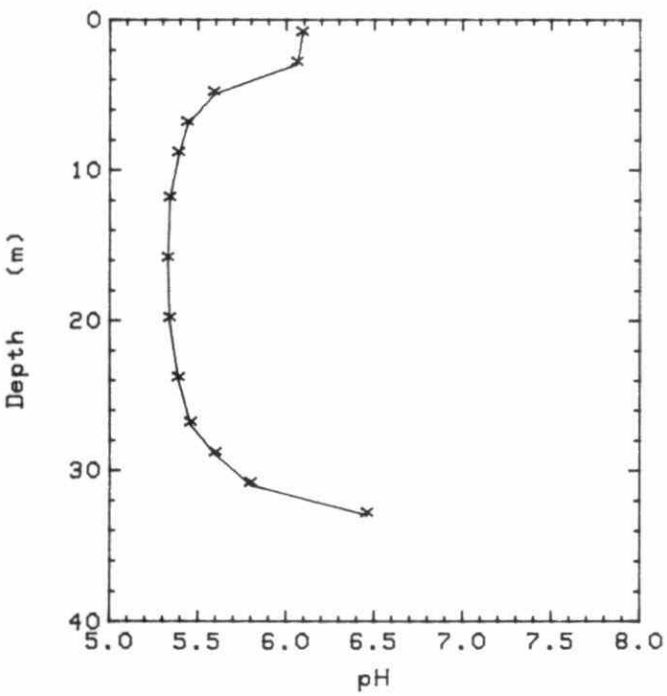



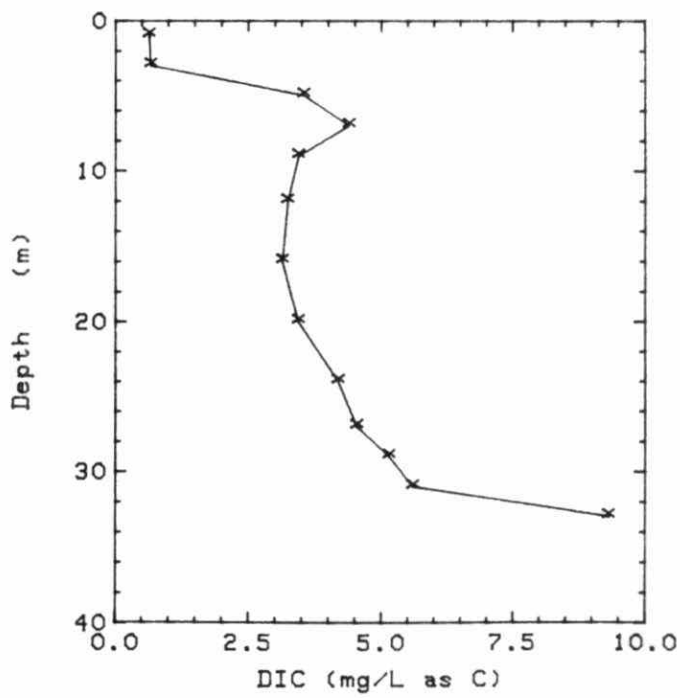



# CINDER EAST 85.09.26

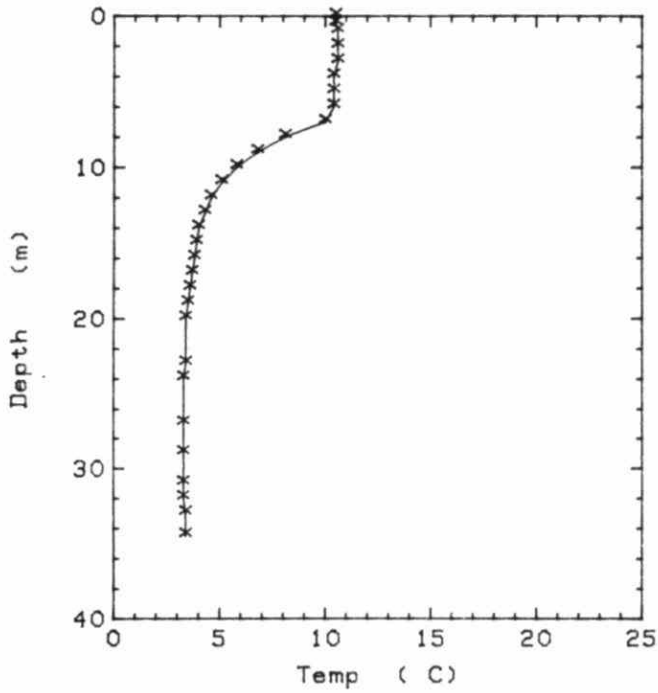


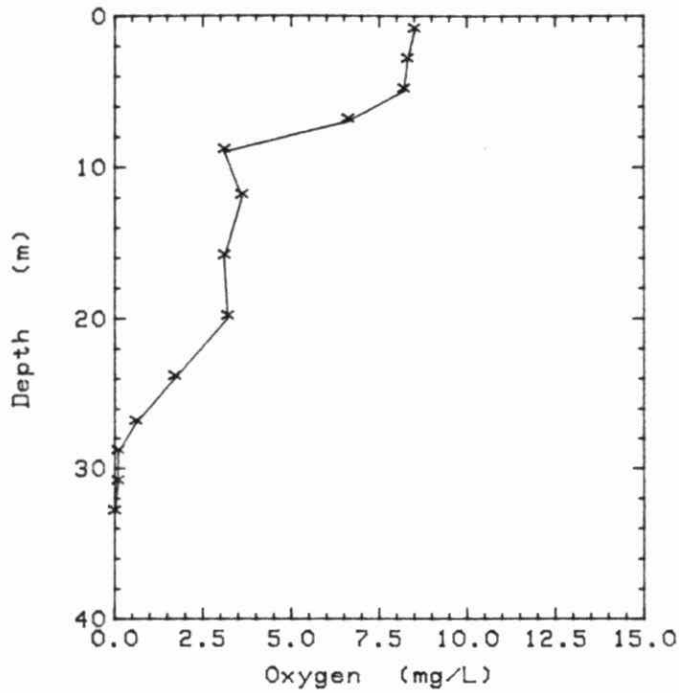



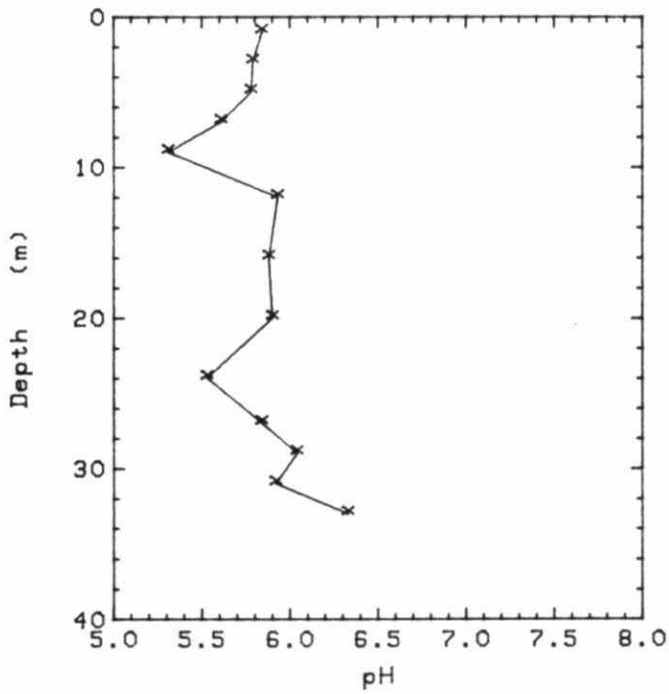



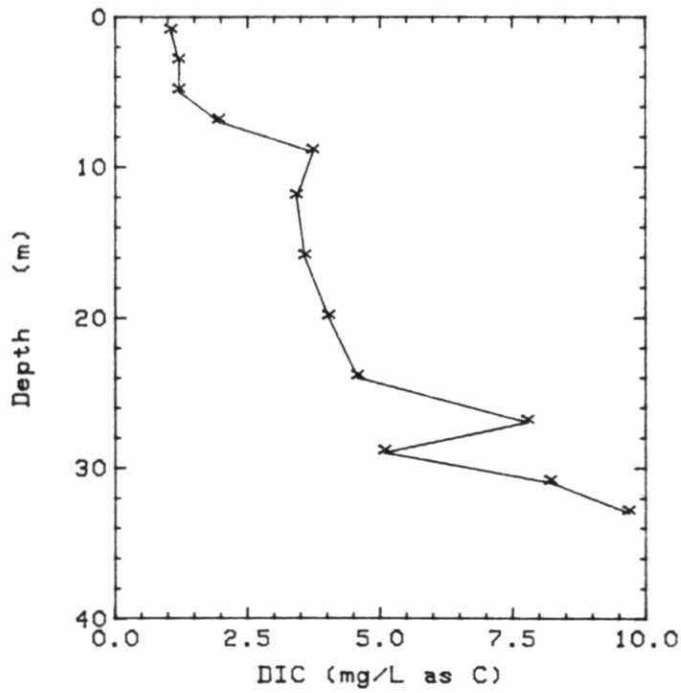



# CINDER EAST 85.10.24

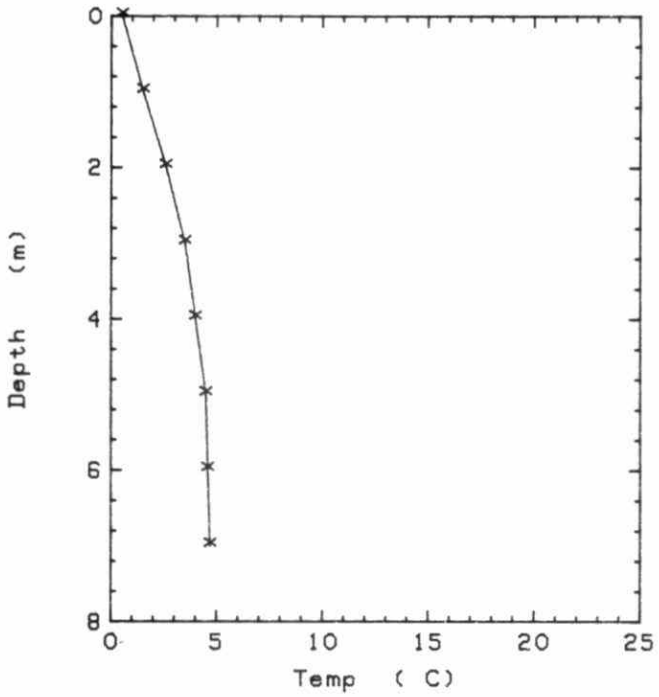


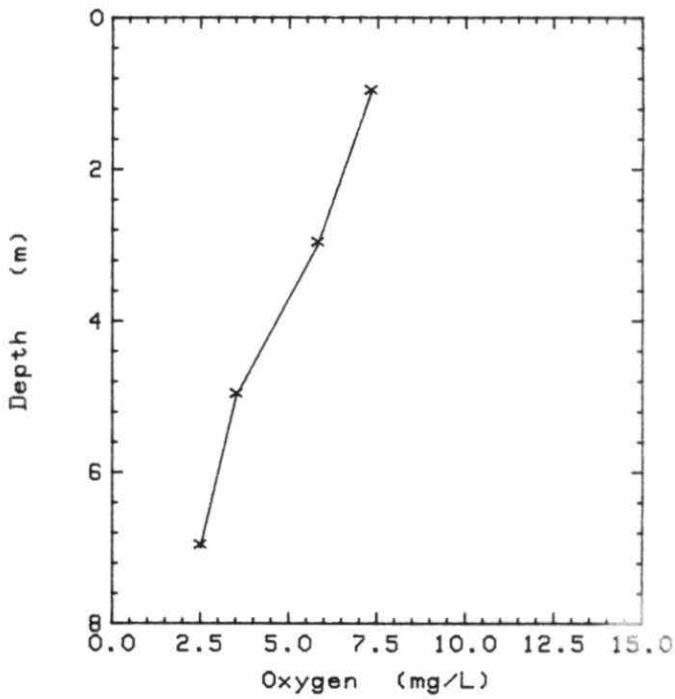



# FAWN 78.03.31


Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)


Depth (m)
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8
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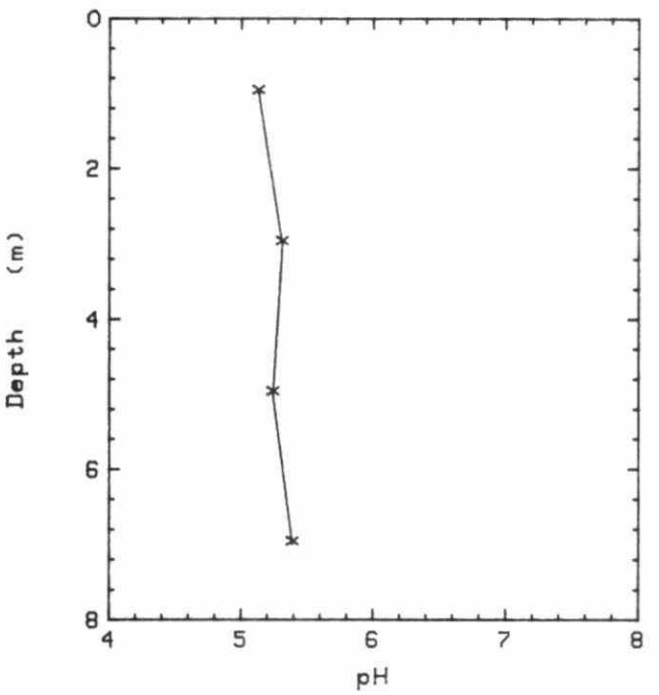
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)


Depth (m)
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2
4
6
8
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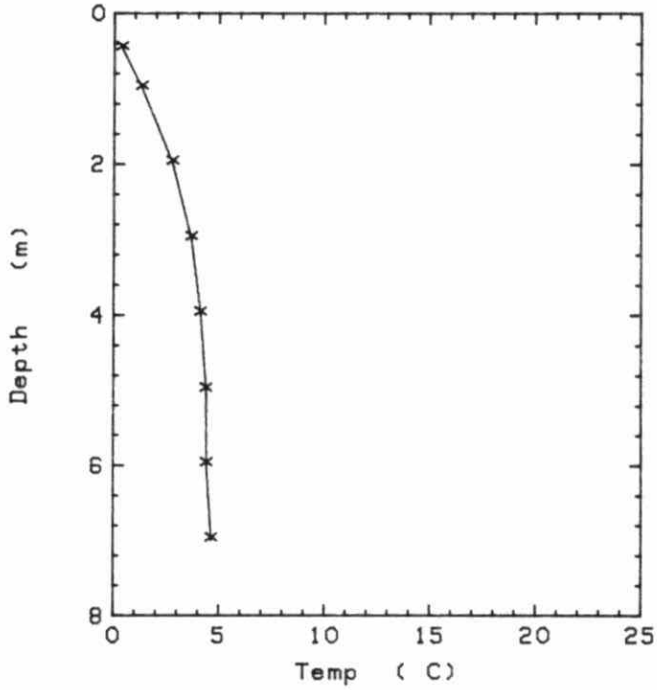
6
7
8
pH

# FAWN 78.04.10


Depth (m)
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8
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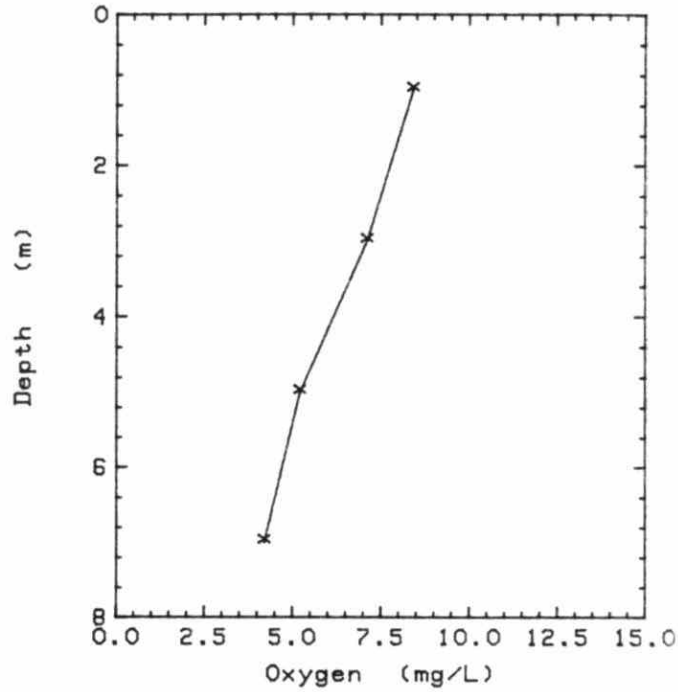
15
20
25
Temp ( C)


Depth (m)
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6
8
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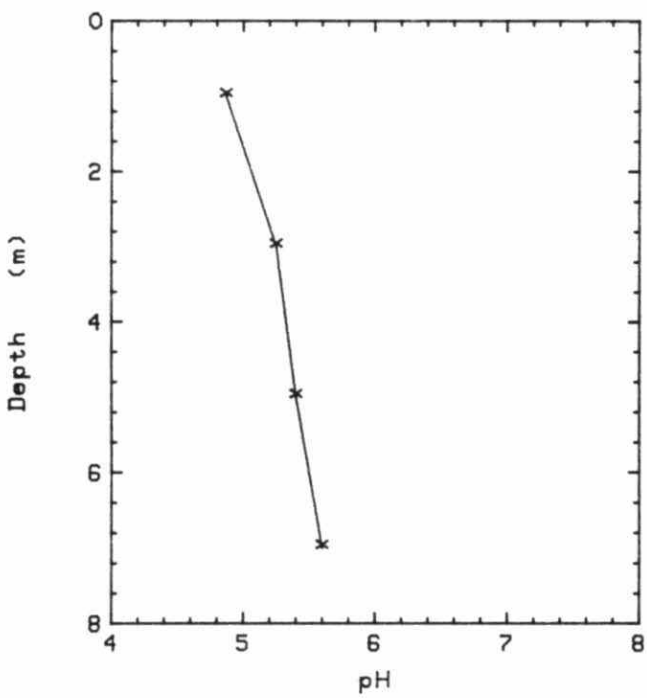
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)


Depth (m)
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2
4
6
8
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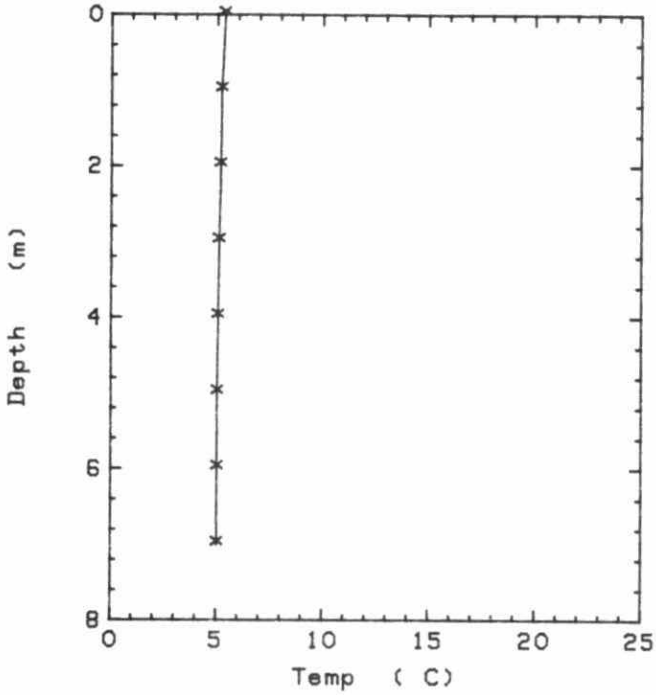
5
6
7
8
pH

# FAWN 78.05.02


Depth (m)
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8
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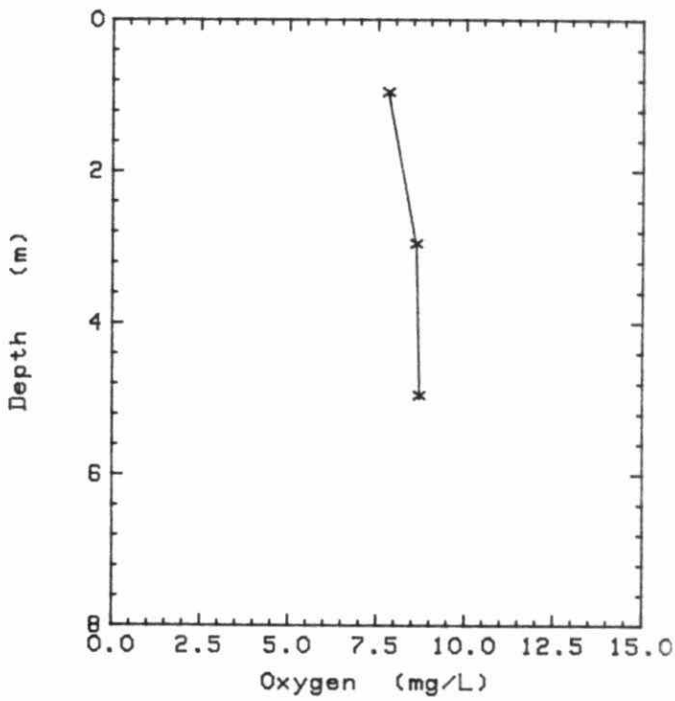
5
10
15
20
25
Temp ( C)


Depth (m)
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8
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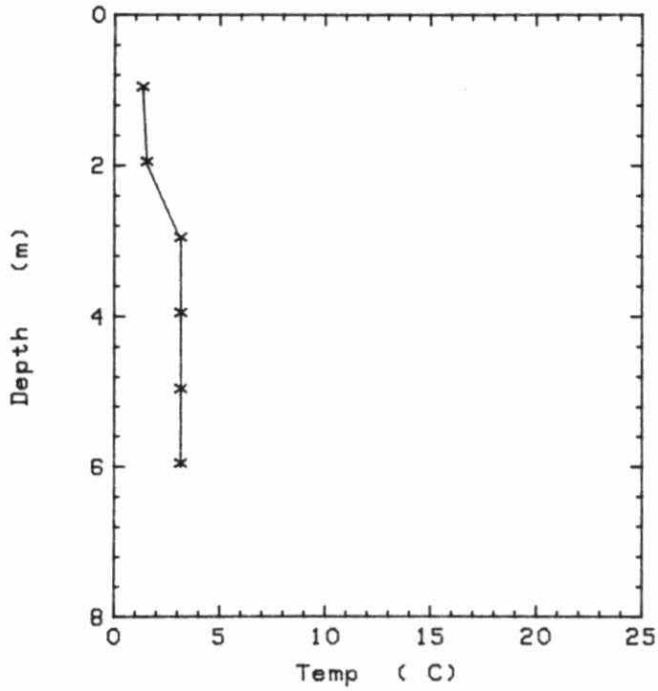
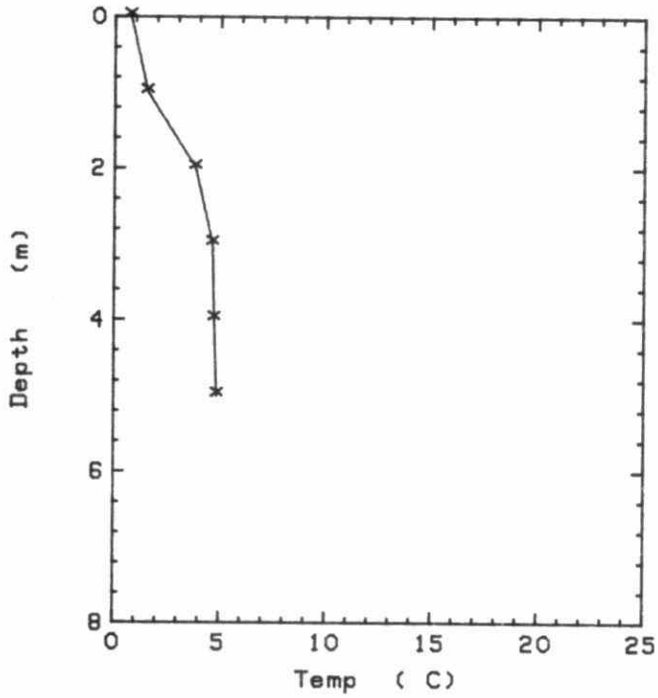
7.5
10.0
12.5
15.0
Oxygen (mg/L)

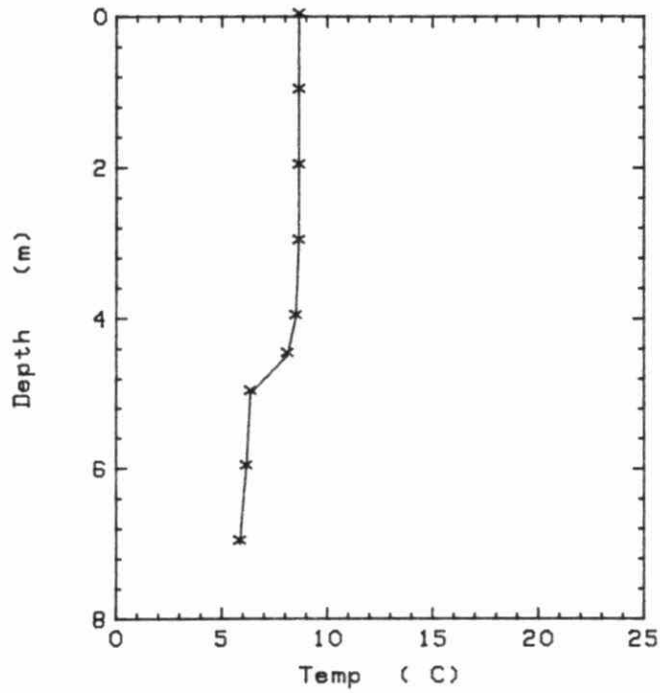
FAWN 79.02.05

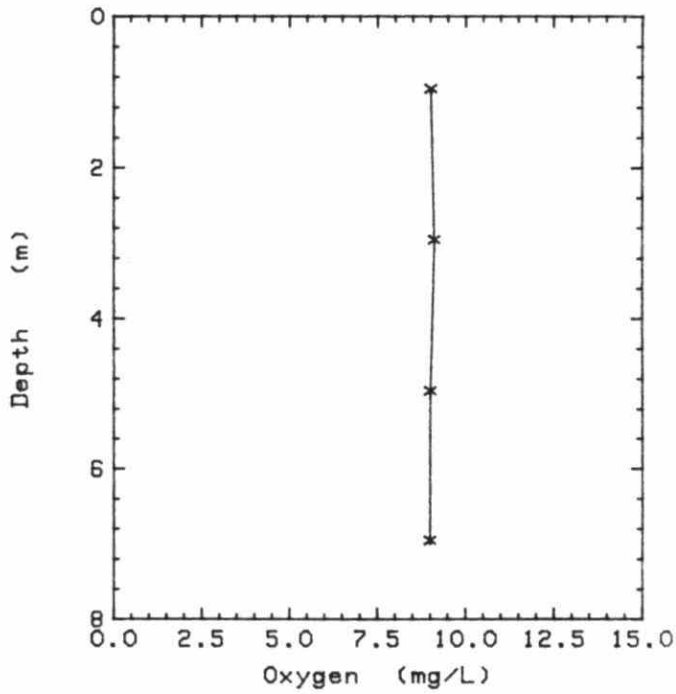


# FAWN 79.02.19



# FAWN 79.05.03


Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)


Depth (m)
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6
8
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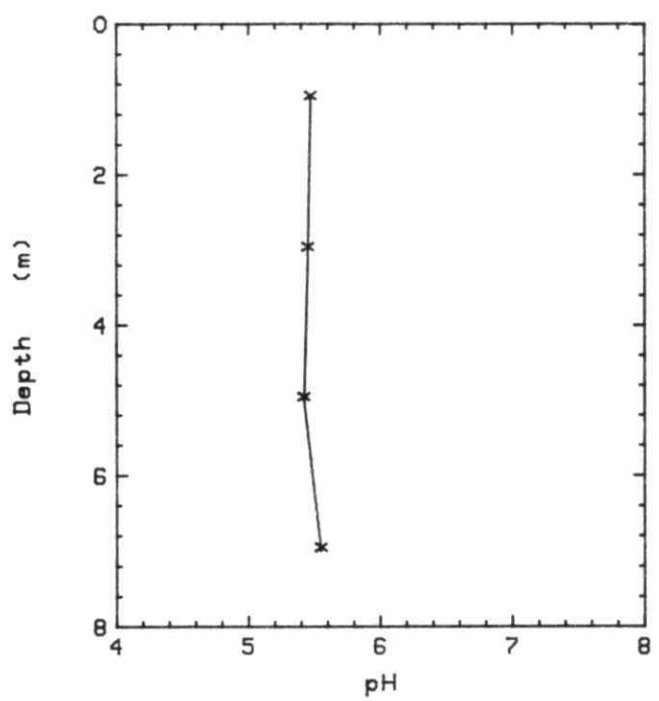
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)


Depth (m)
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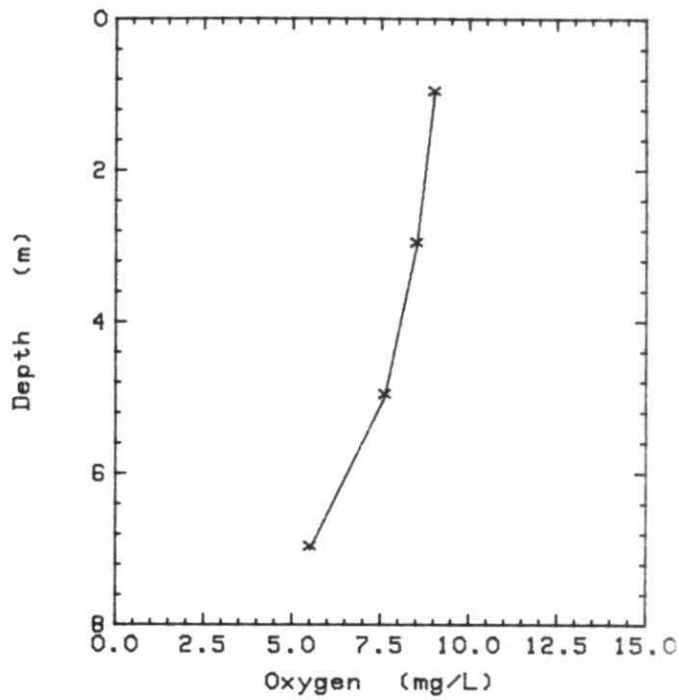
2
4
6
8
4
5
6
7
8
pH

# FAWN 79.05.22


Depth (m)
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6
8
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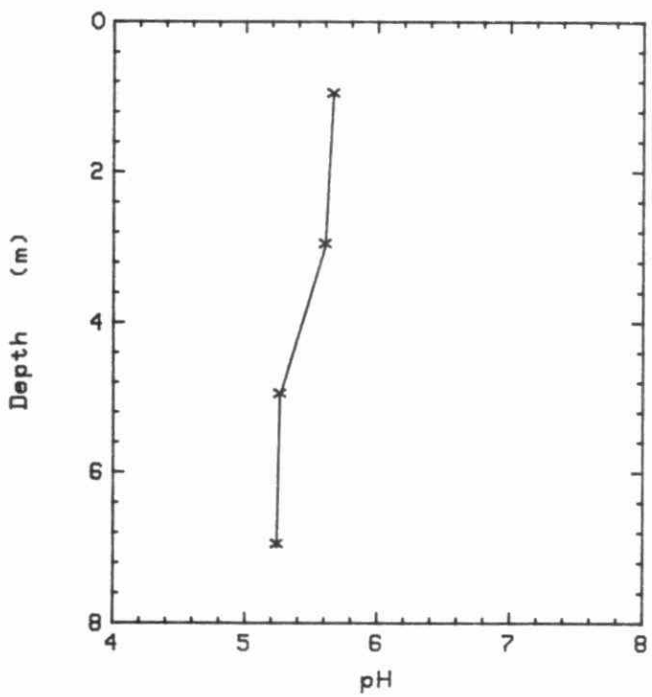
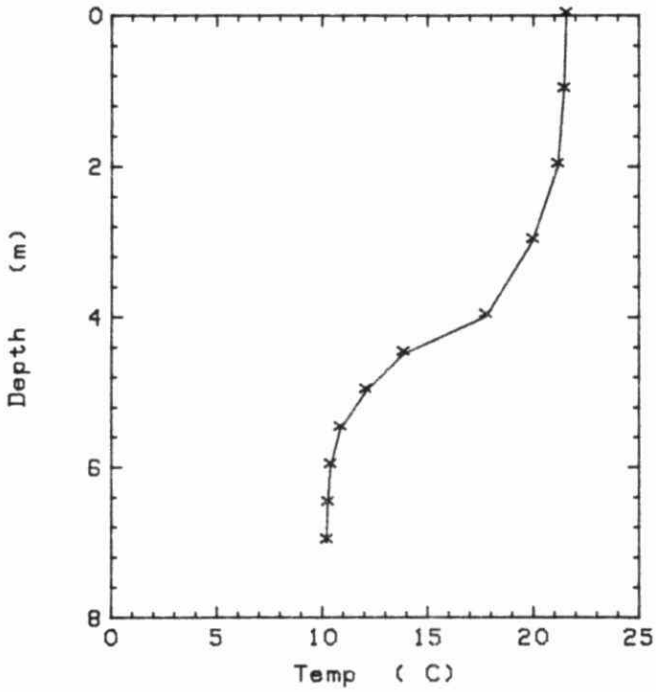
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)


Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

# FAWN 79.06.20


Depth (m)
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2
4
6
8
0
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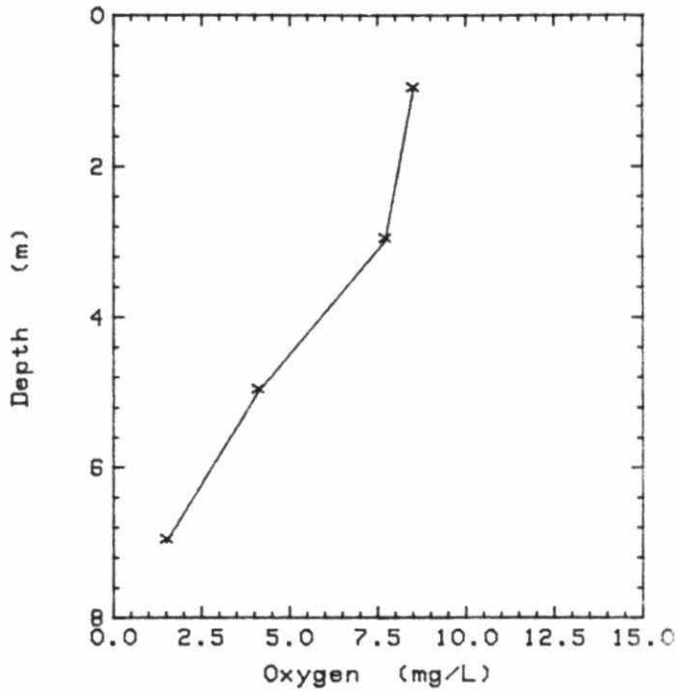
10
15
20
25
Temp ( C)


Depth (m)
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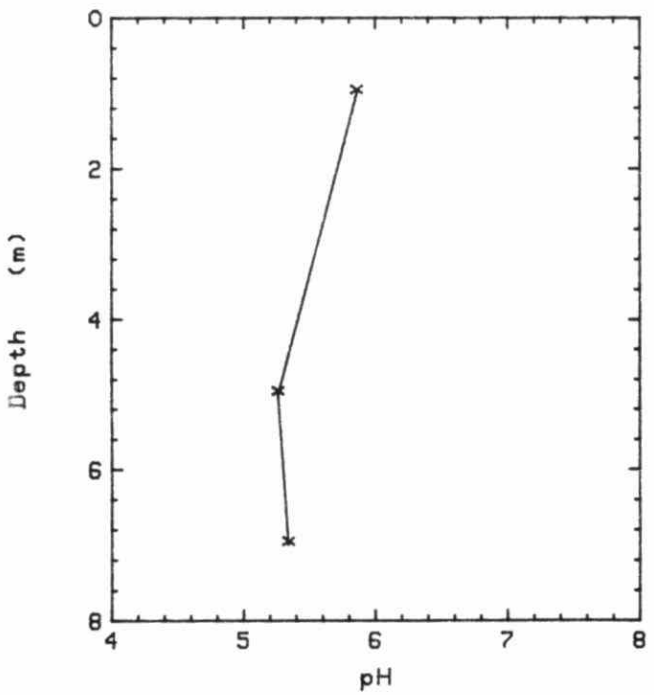
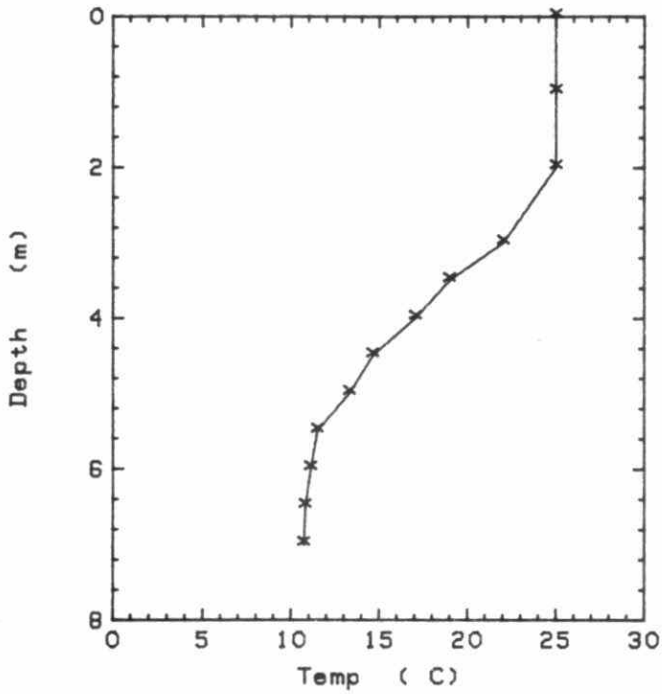
10.0
12.5
15.0
Oxygen (mg/L)


Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

# FAWN 79.07.26


Depth (m)
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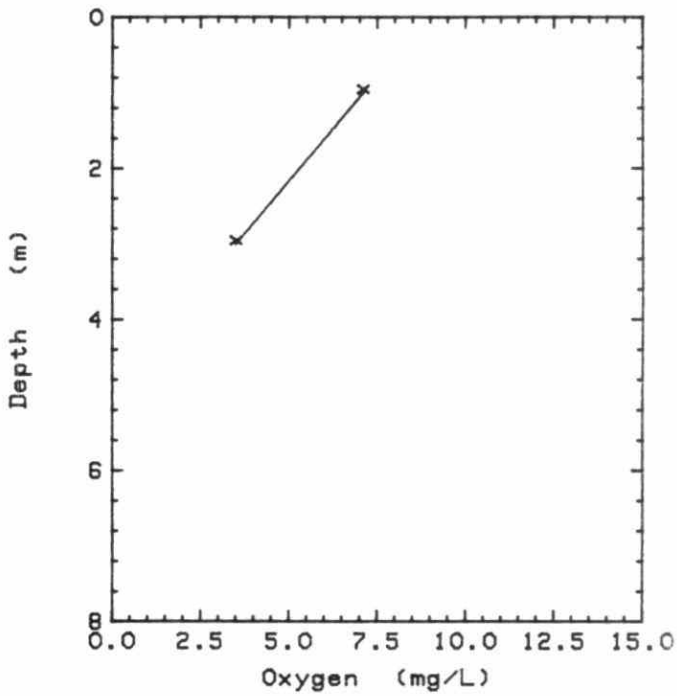
4
6
8
0
5
10
15
20
25
30
Temp ( C)


Depth (m)
0
2
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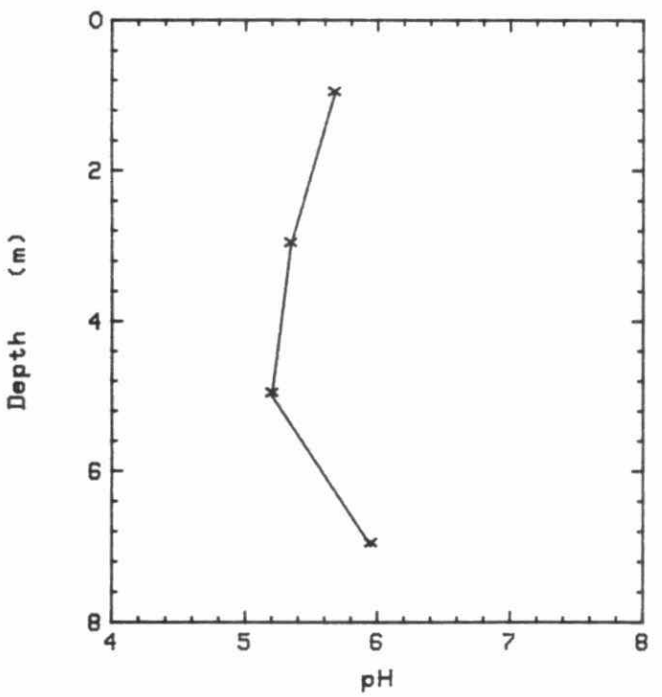
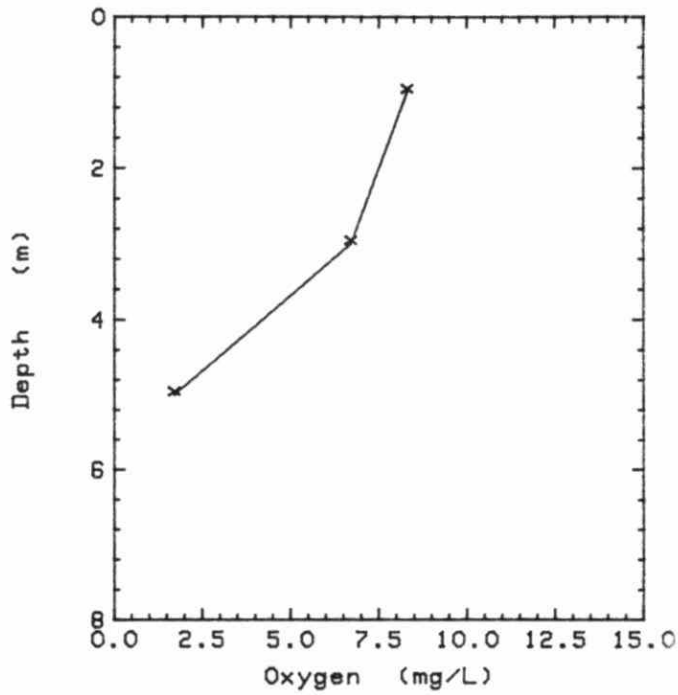
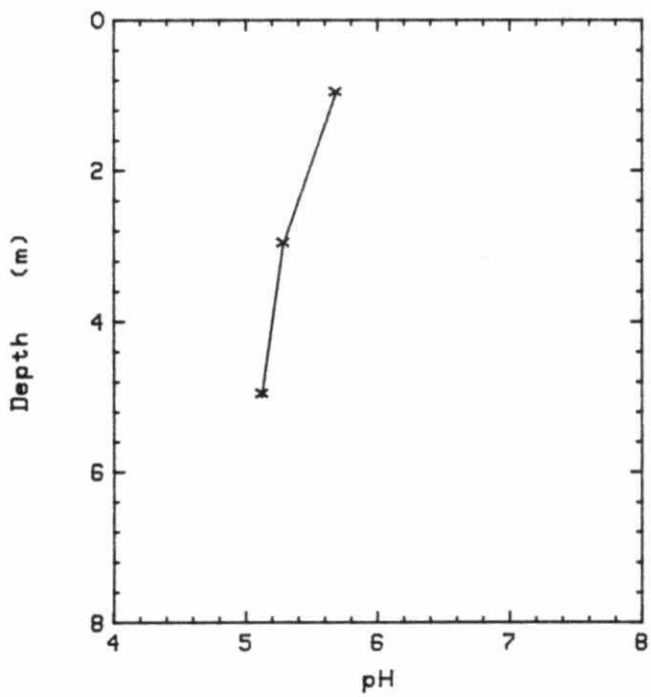
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

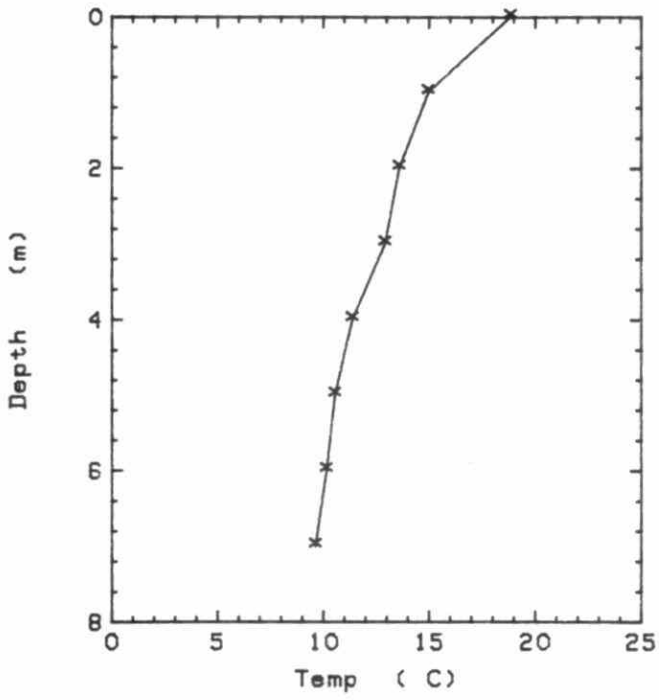

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

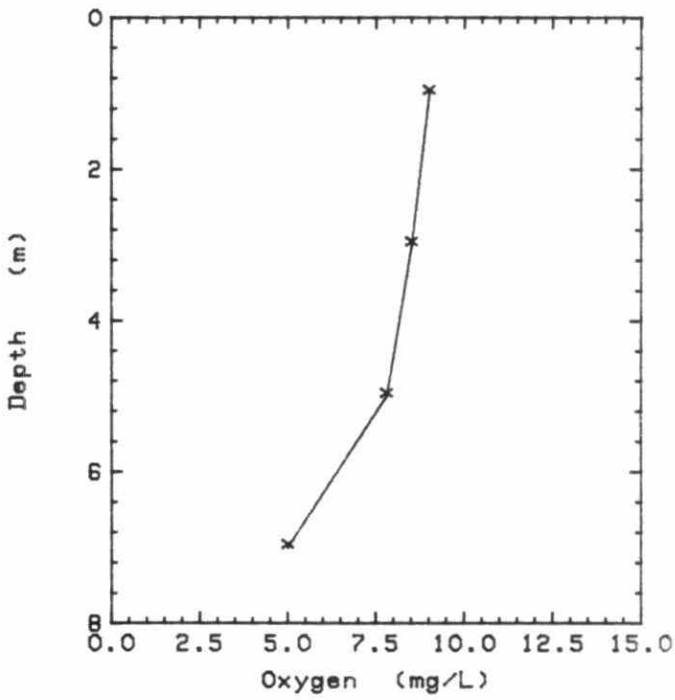
# FAWN 79.09.06

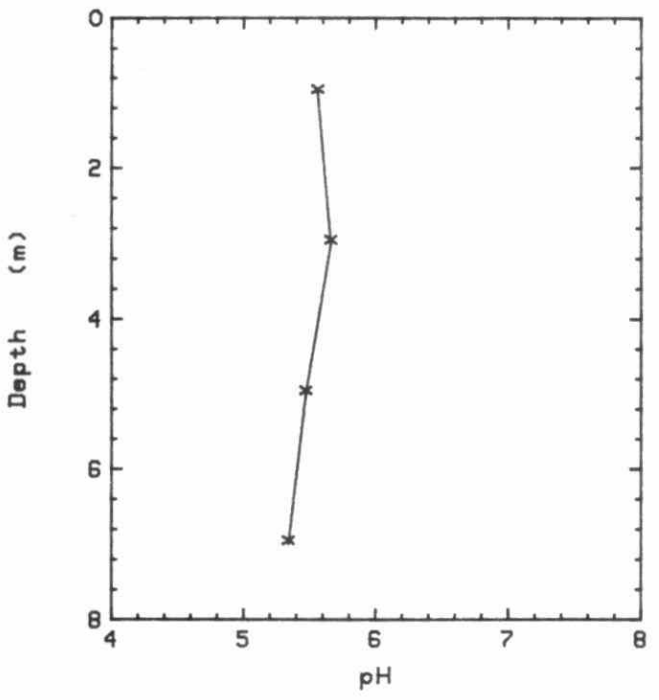

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)


Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

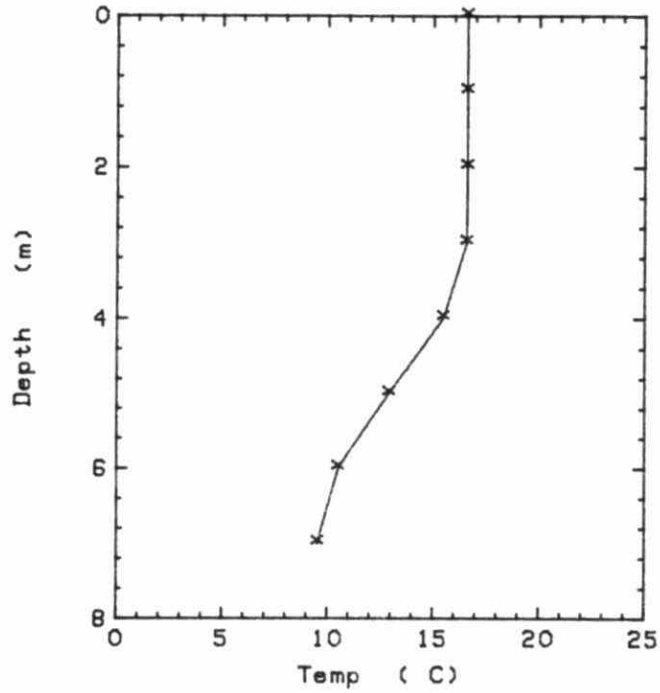
# FAWN 80.05.22

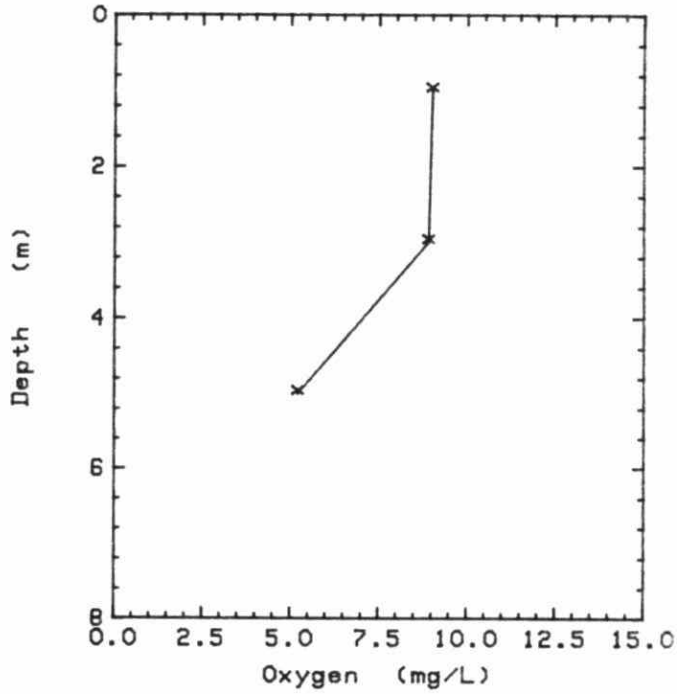

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

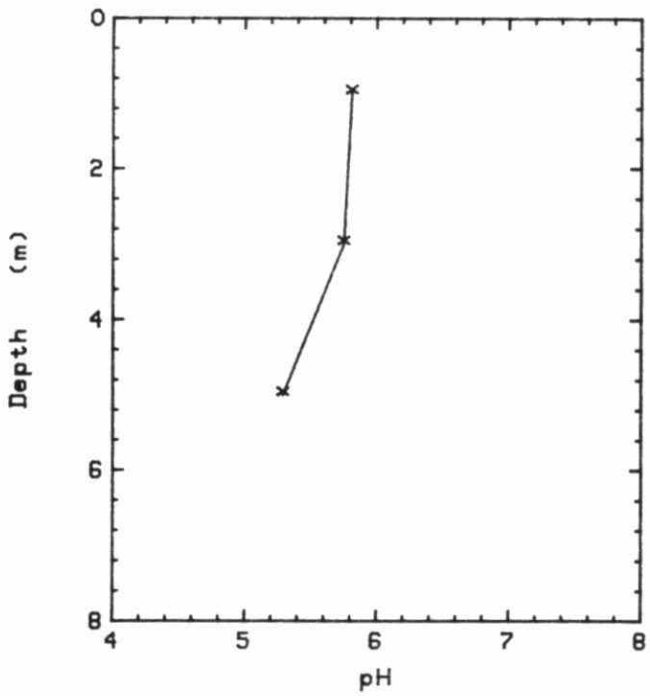

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)


Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

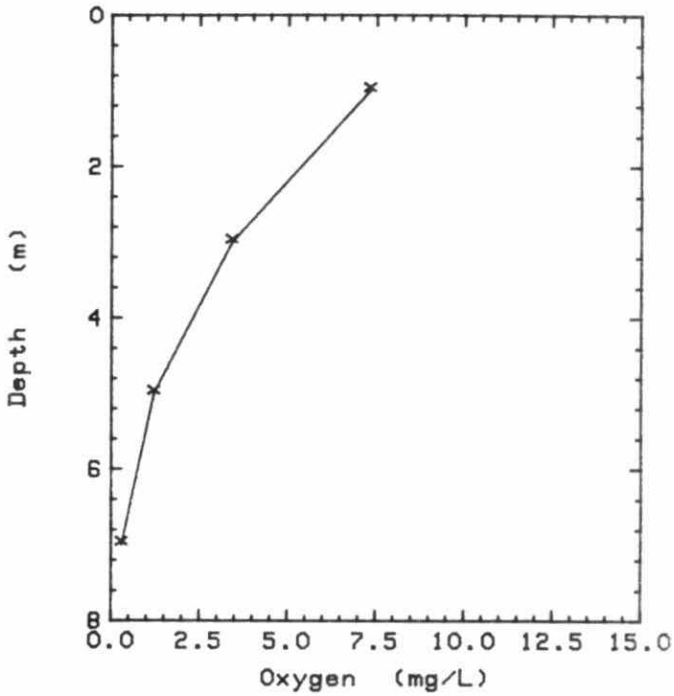
# FAWN 80.06.19

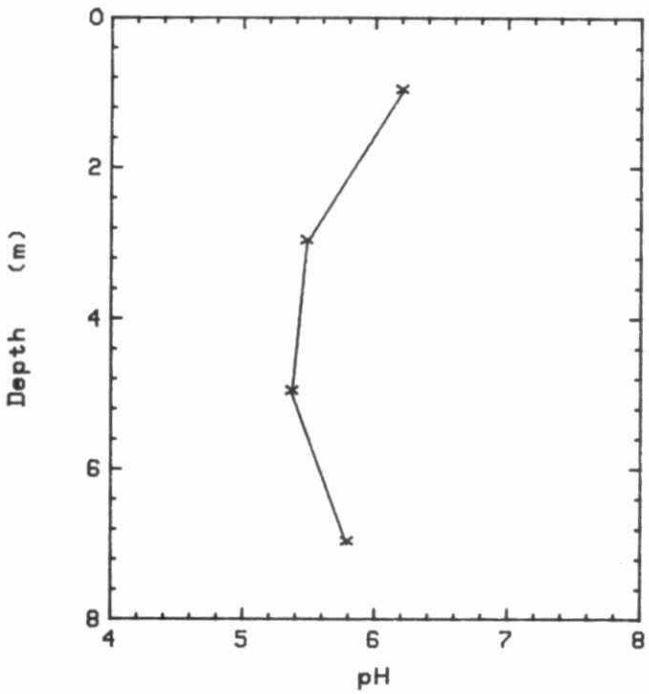

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)


Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

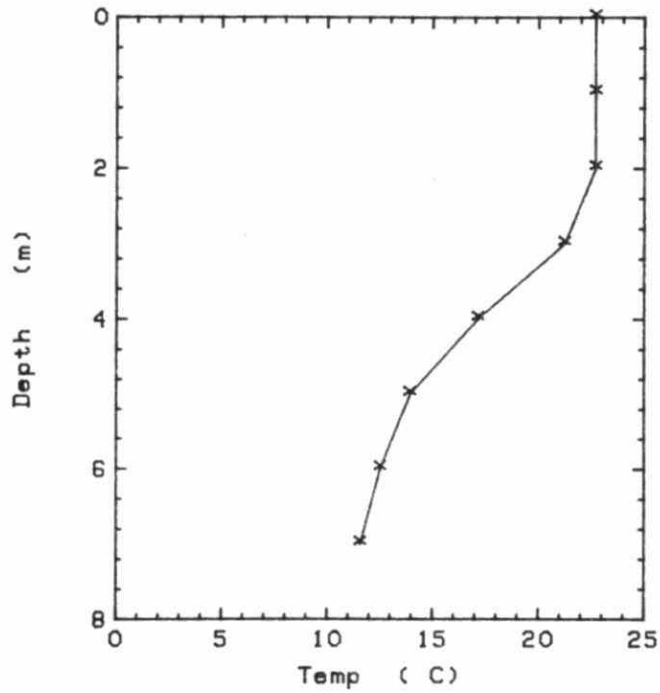

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

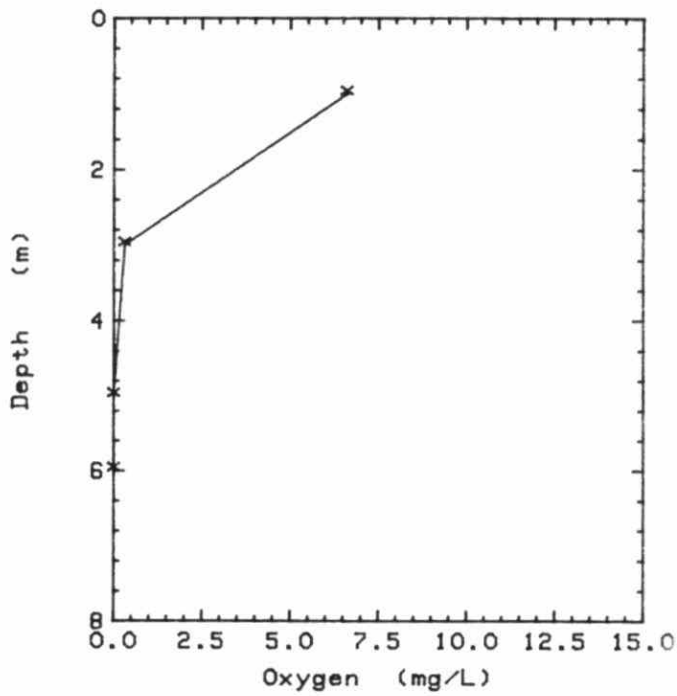
FAWN 80.07.16

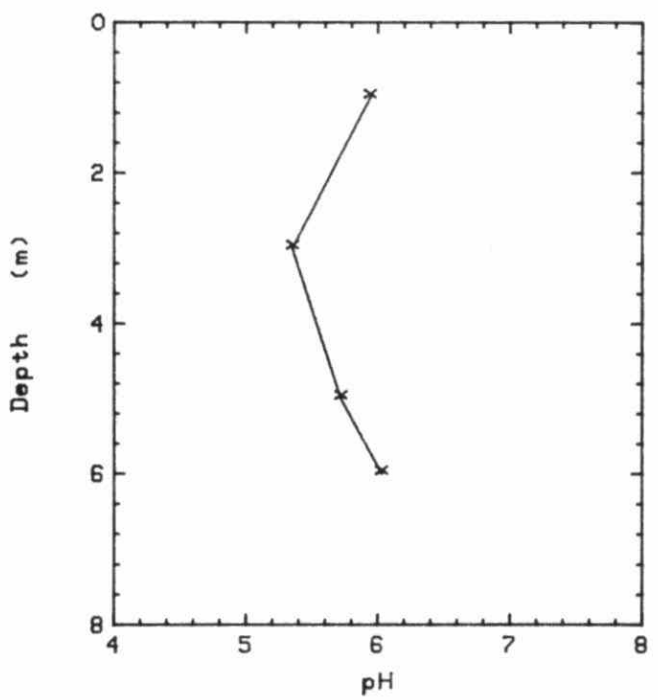

0
2
4
6
8
Depth (m)
0.0 2.5 5.0 7.5 10.0 12.5 15.0
Oxygen (mg/L)


0
2
4
6
8
Depth (m)
4 5 6 7 8
pH

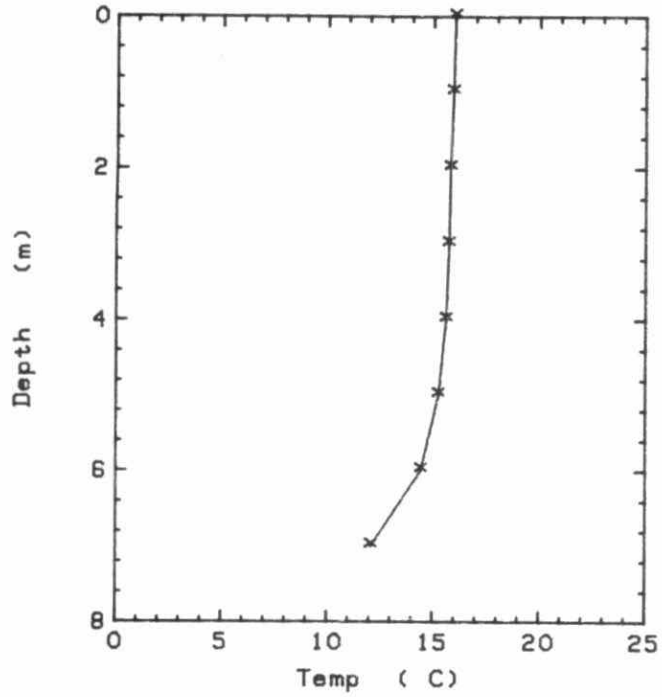
# FAWN 80.08.15

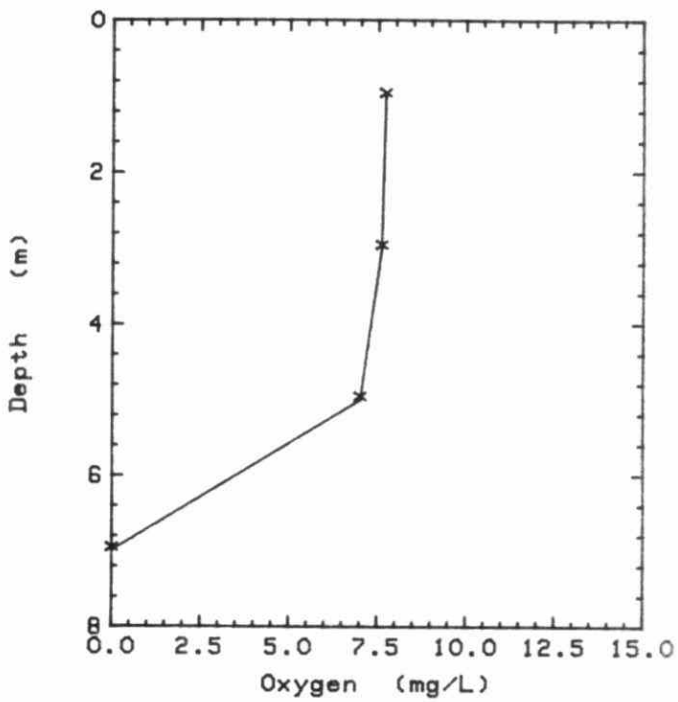

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

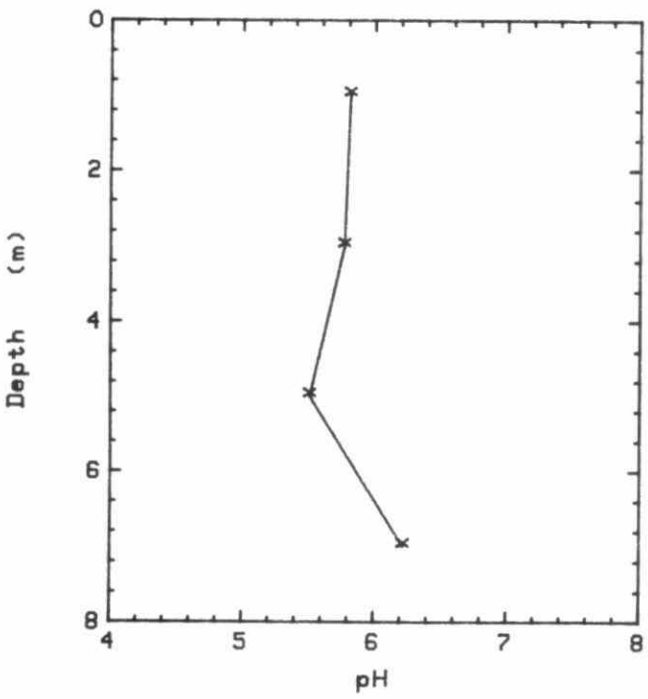

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)


Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

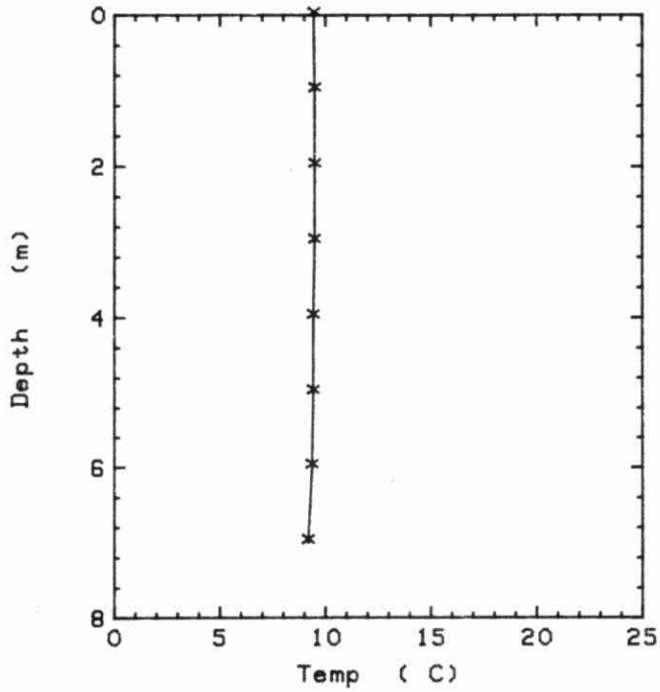
# FAWN 80.09.23

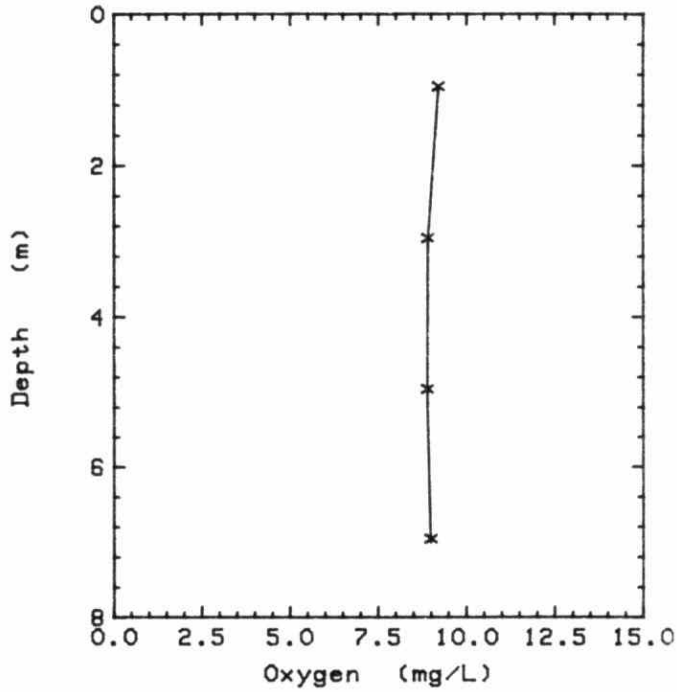

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

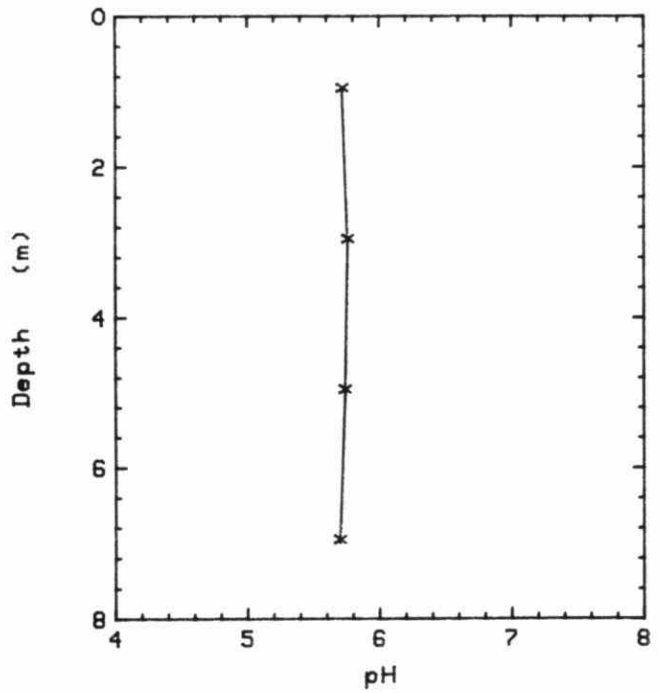

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)


Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

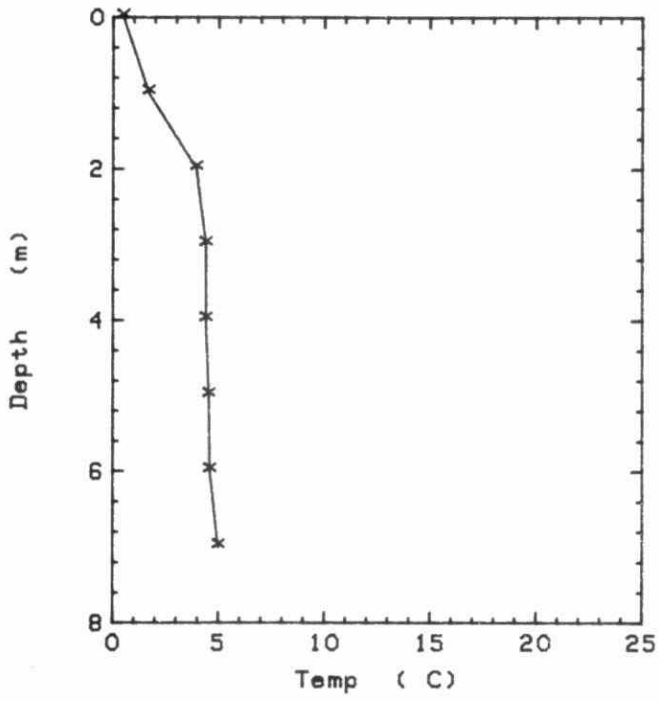
# FAWN 80.10.20

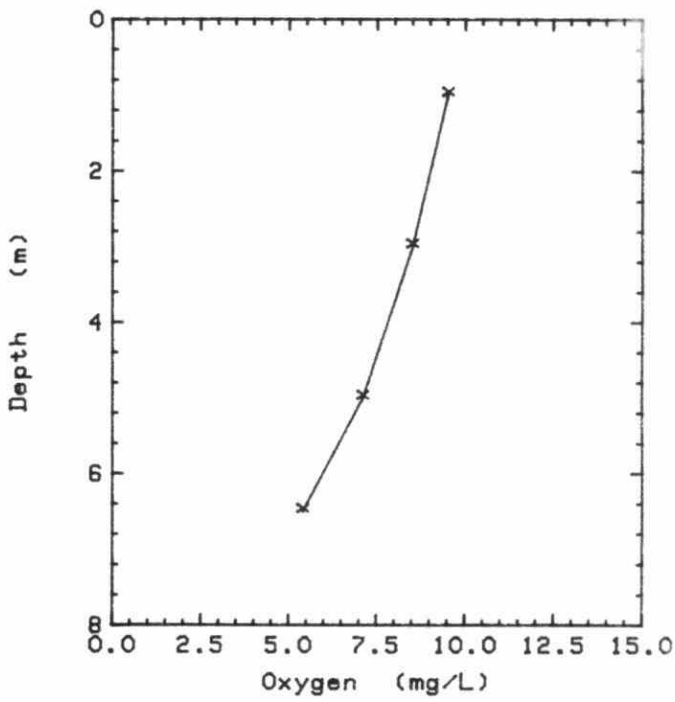

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

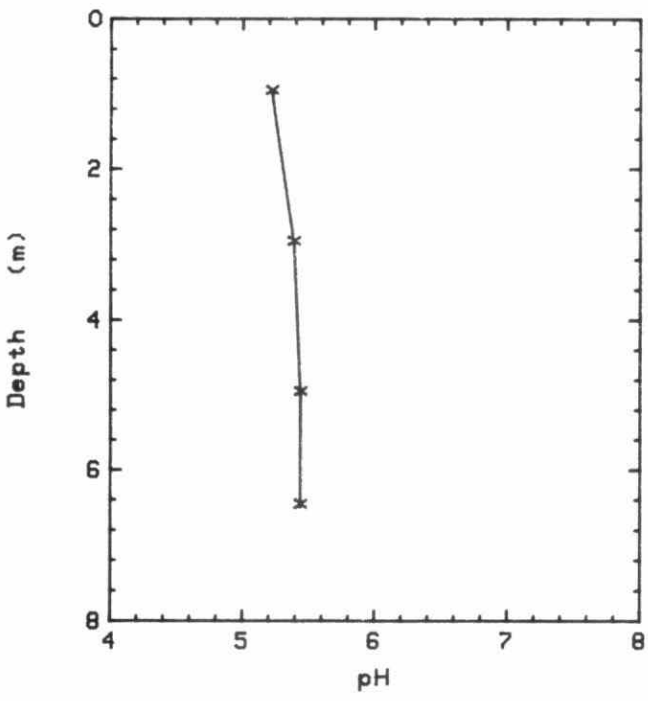

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)


Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

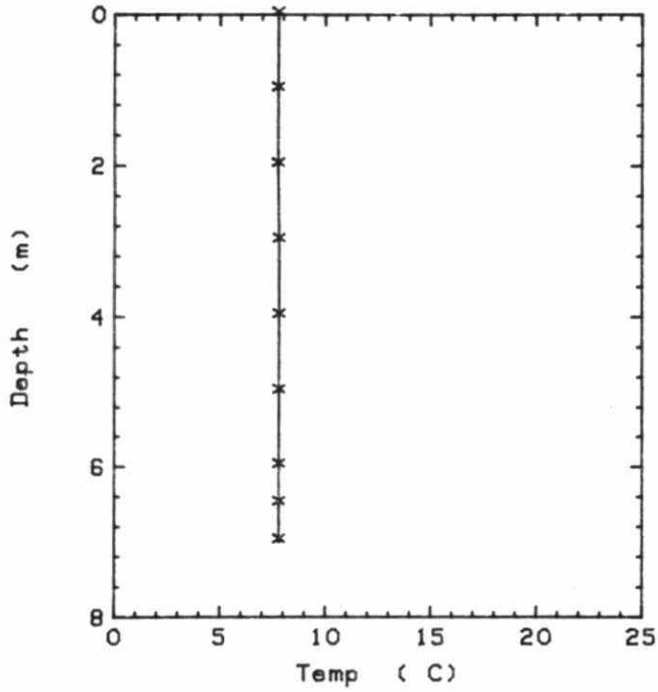
# FAWN 81.01.26

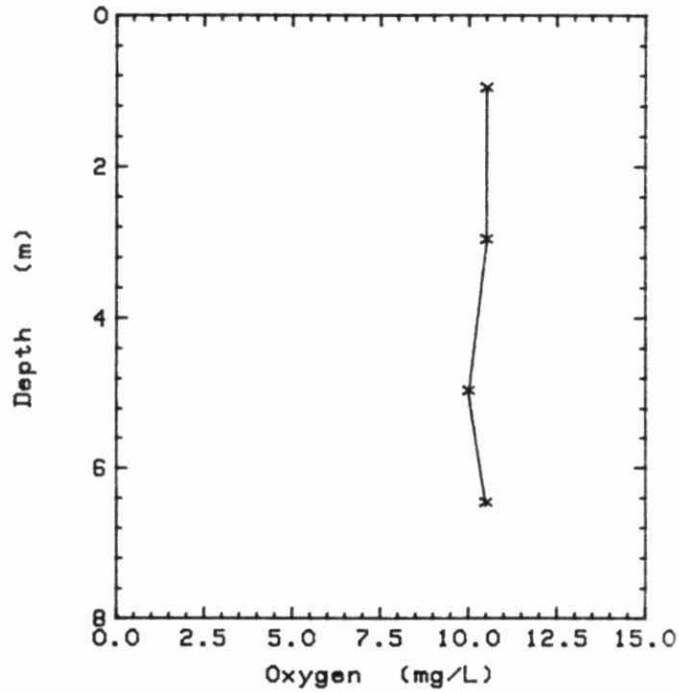

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

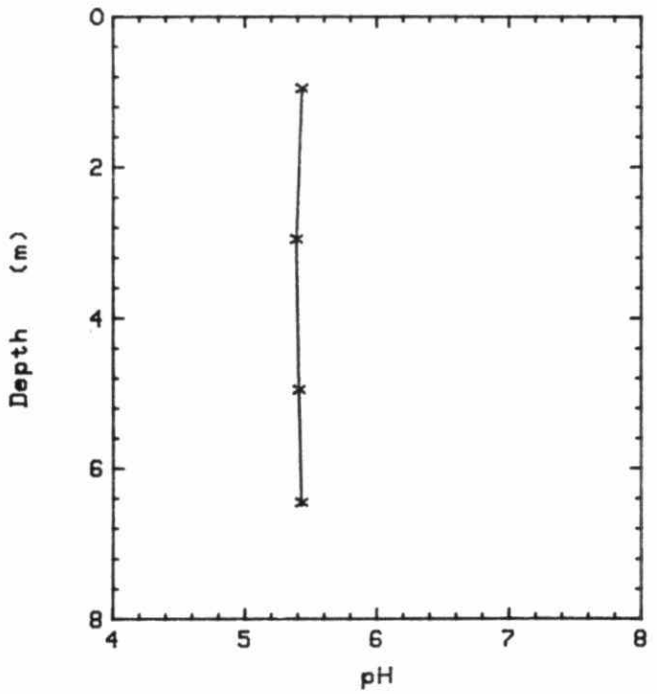

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

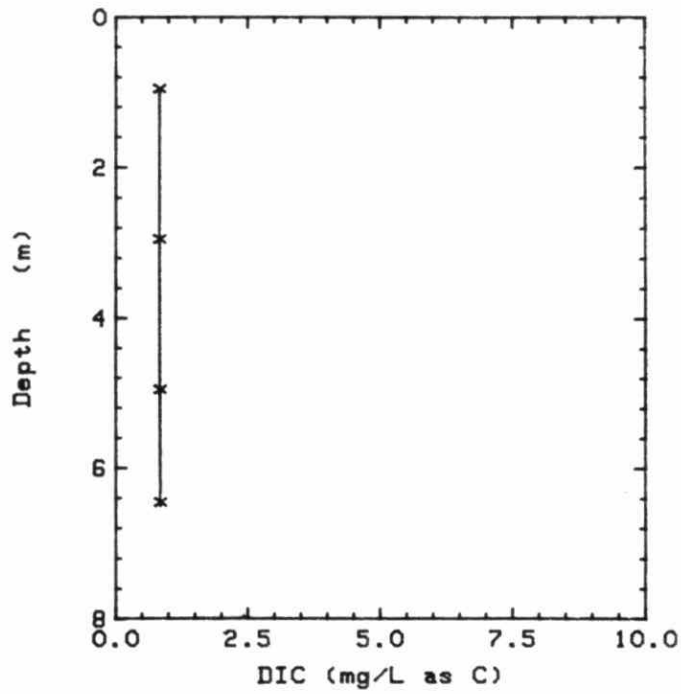

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

# FAWN 81.04.14

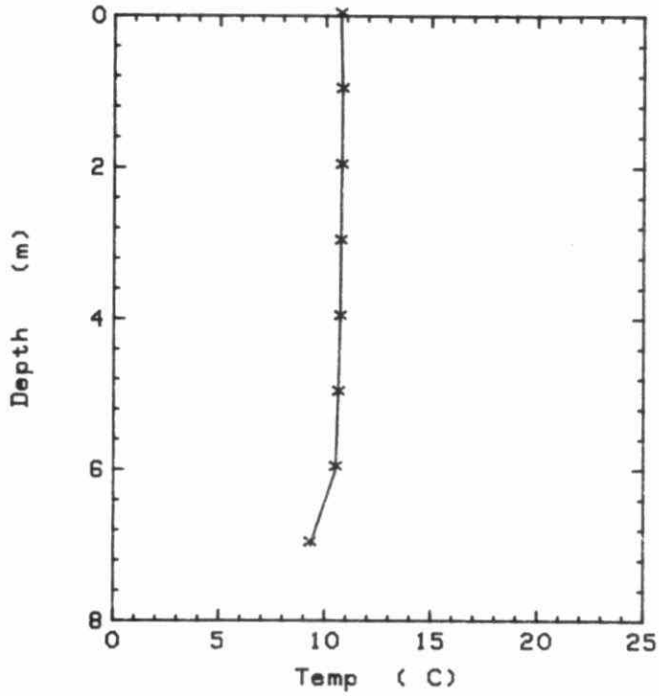

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

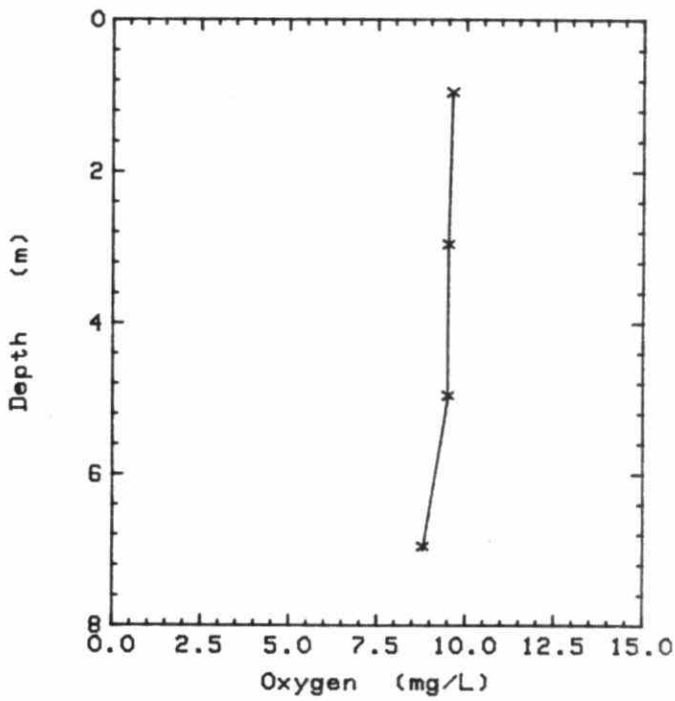

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

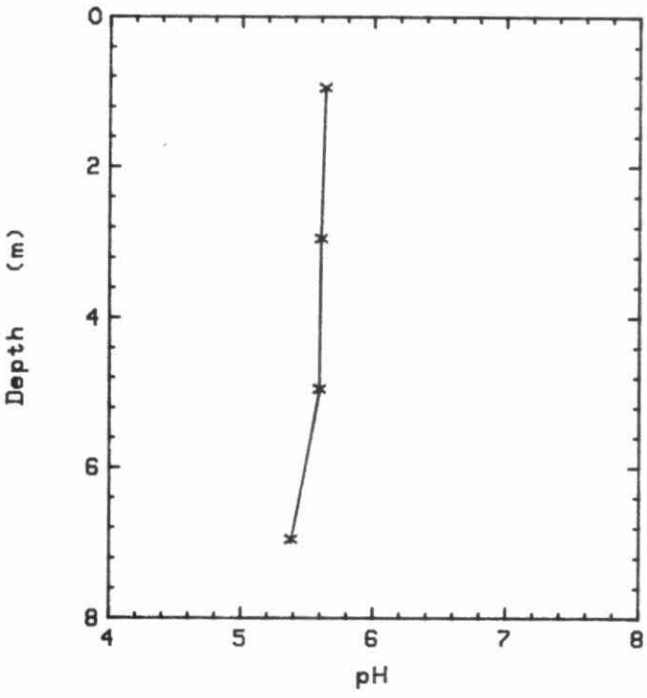

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

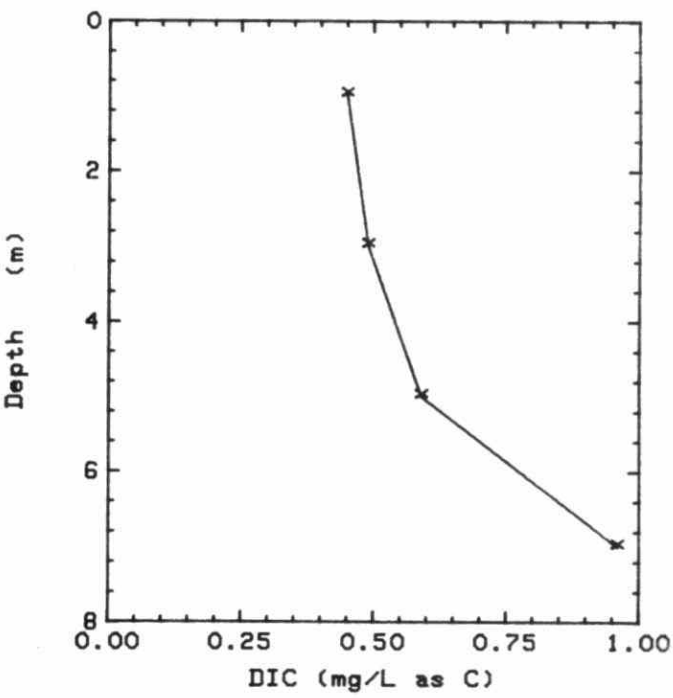

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
DIC (mg/L as C)

# FAWN 81.05.12

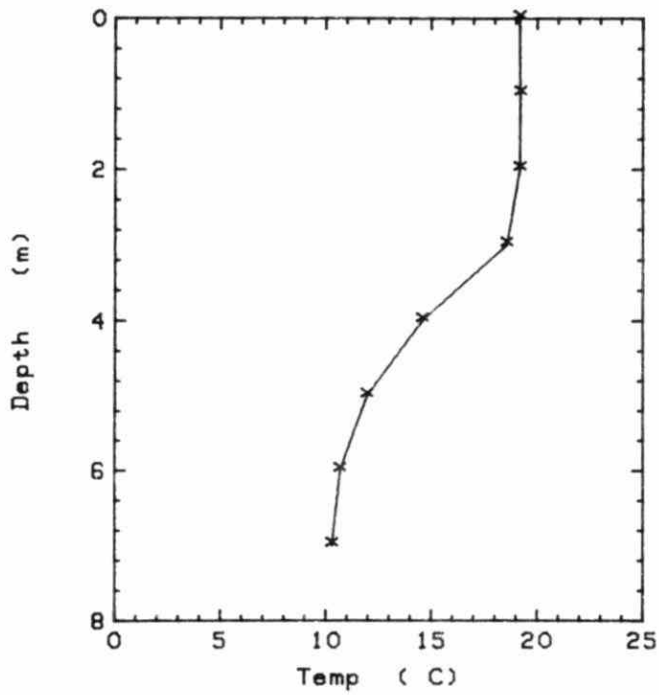

Depth (m)
0
2
4
6
8
0 5 10 15 20 25
Temp ( C)

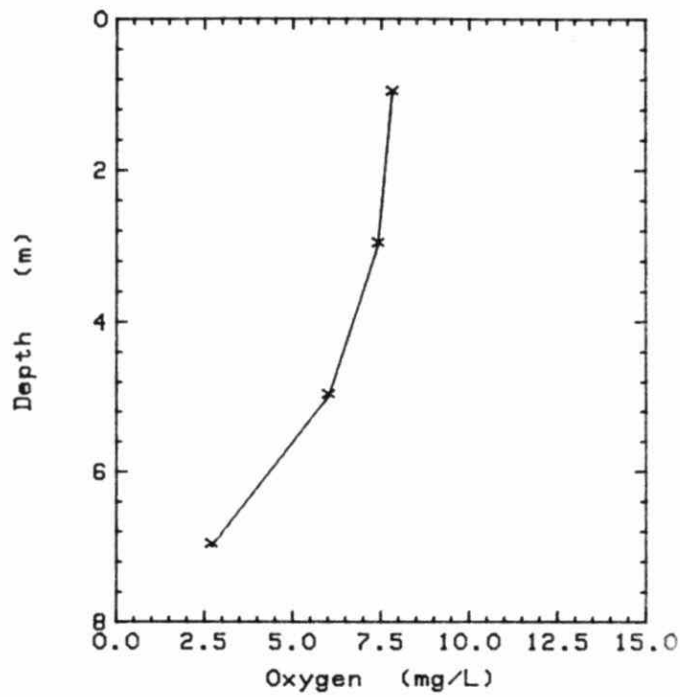

Depth (m)
0
2
4
6
8
0.0 2.5 5.0 7.5 10.0 12.5 15.0
Oxygen (mg/L)

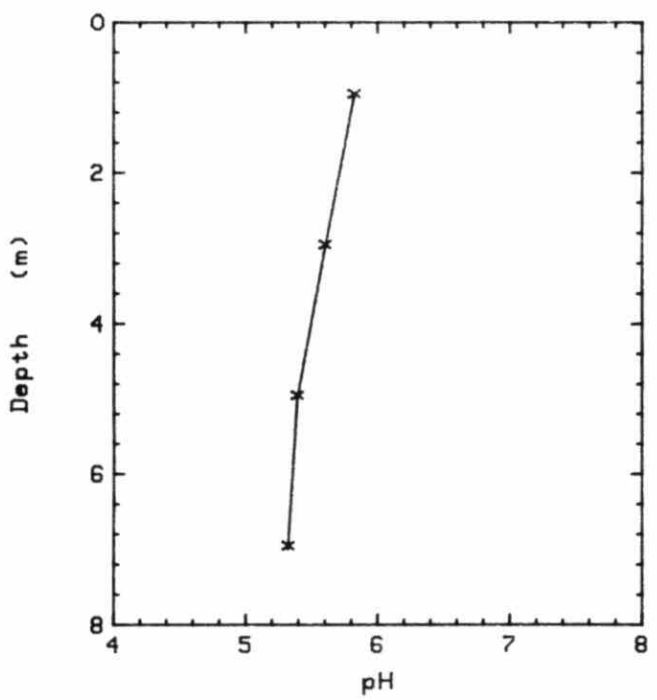

Depth (m)
0
2
4
6
8
4 5 6 7 8
pH

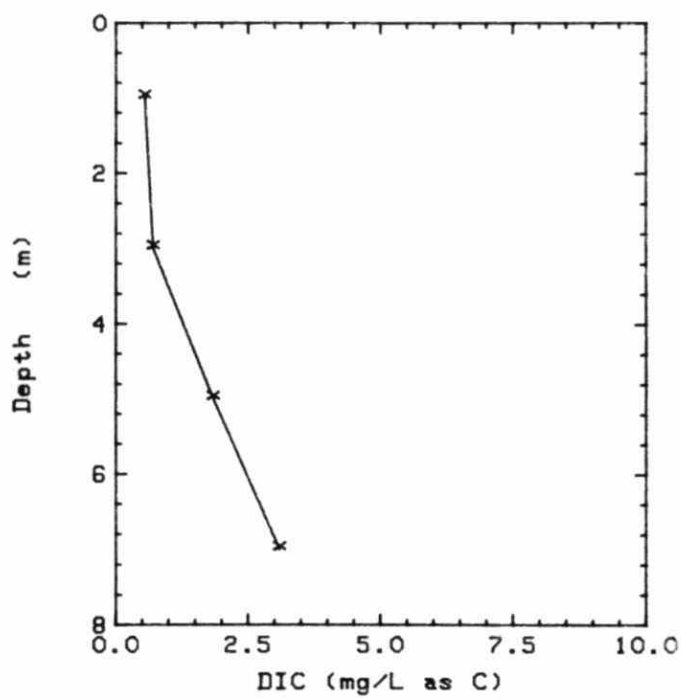

Depth (m)
0
2
4
6
8
0.00 0.25 0.50 0.75 1.00
DIC (mg/L as C)

# FAWN 81.06.24

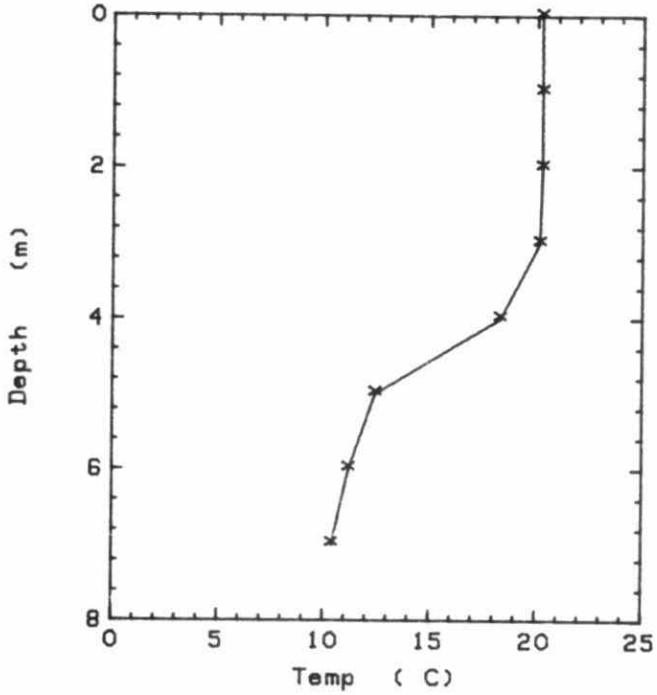

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

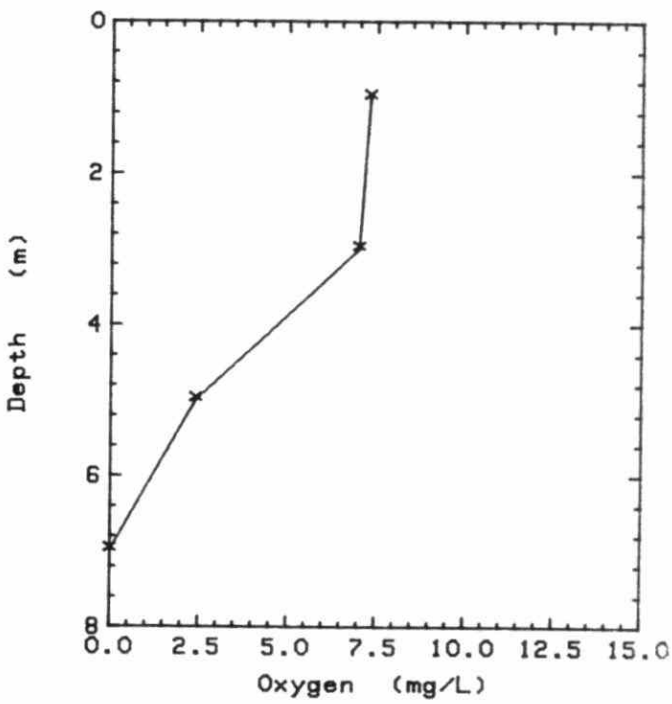

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

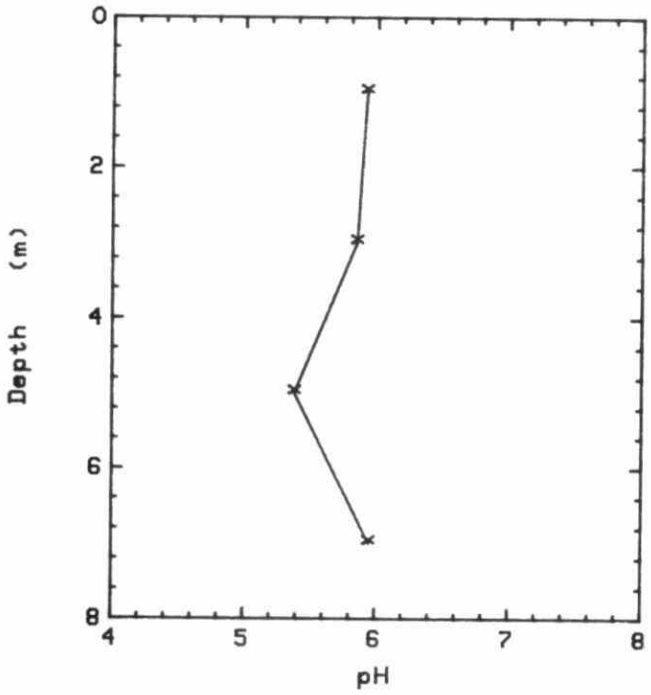

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

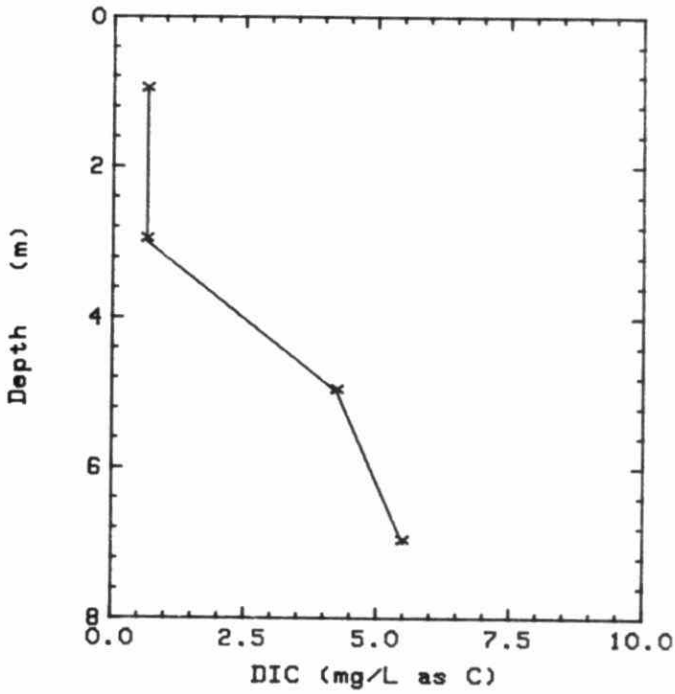

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
DIC (mg/L as C)

# FAWN 81.07.29

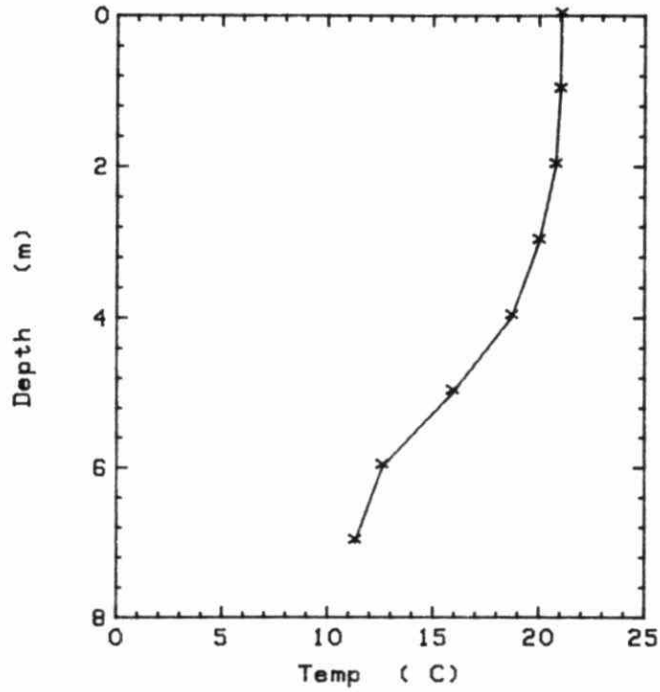

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

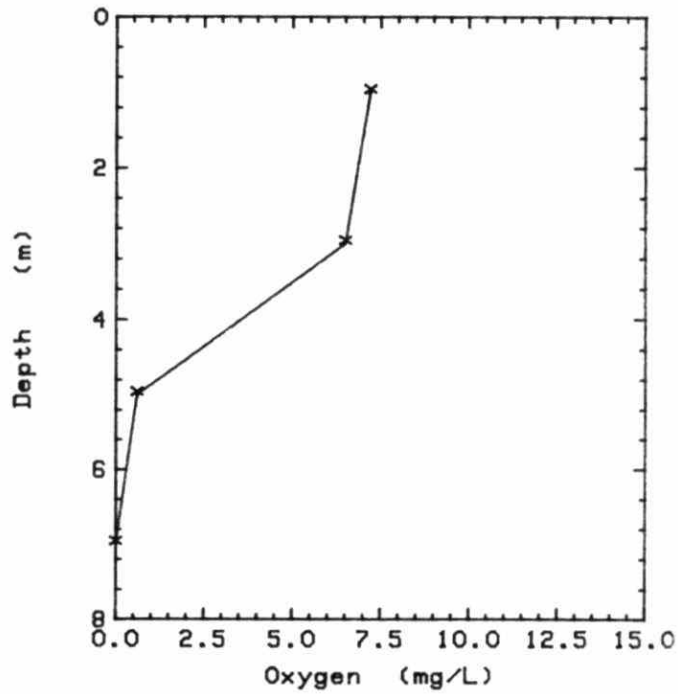

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

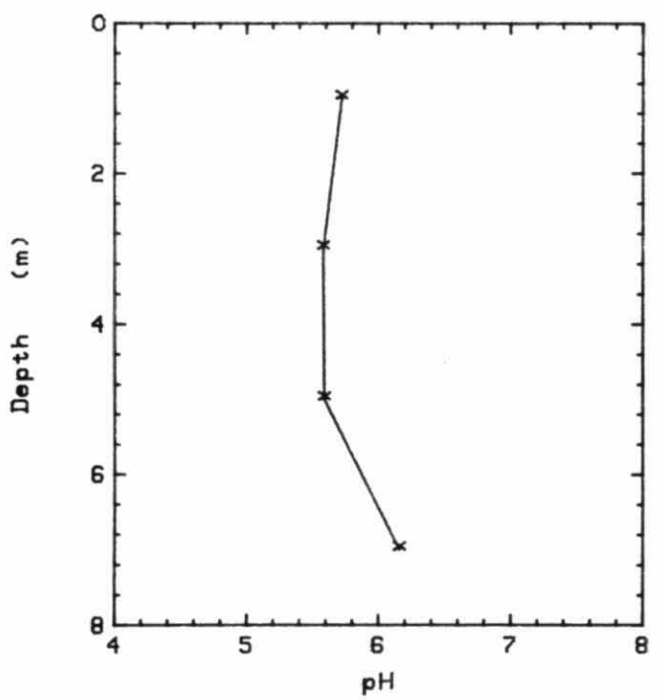

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

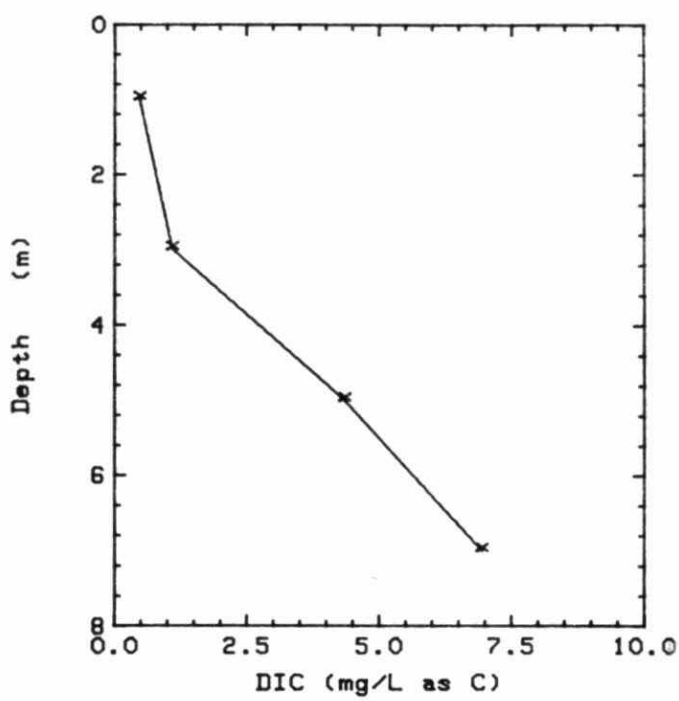

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
DIC (mg/L as C)

# FAWN 81.09.02

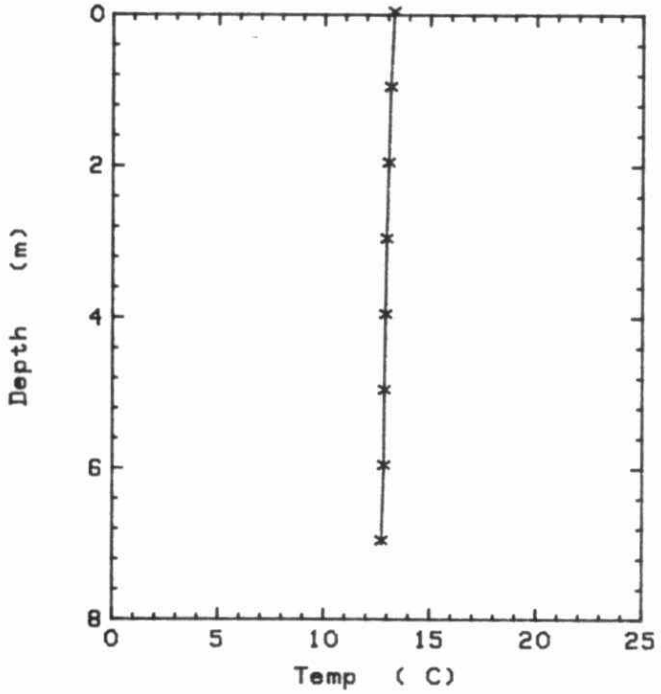

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

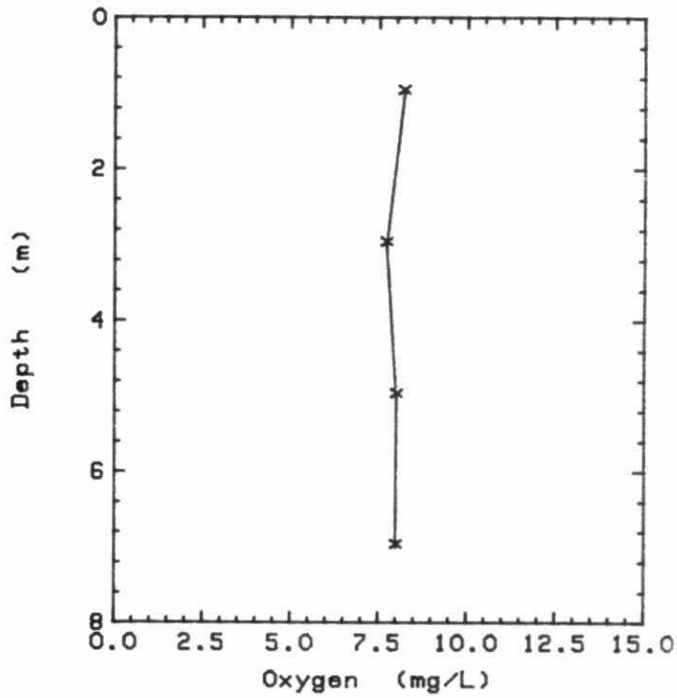

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

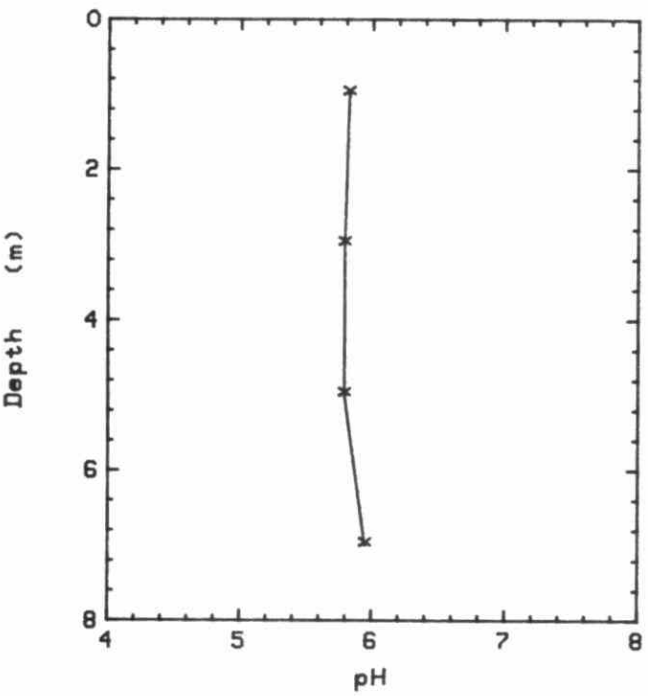

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

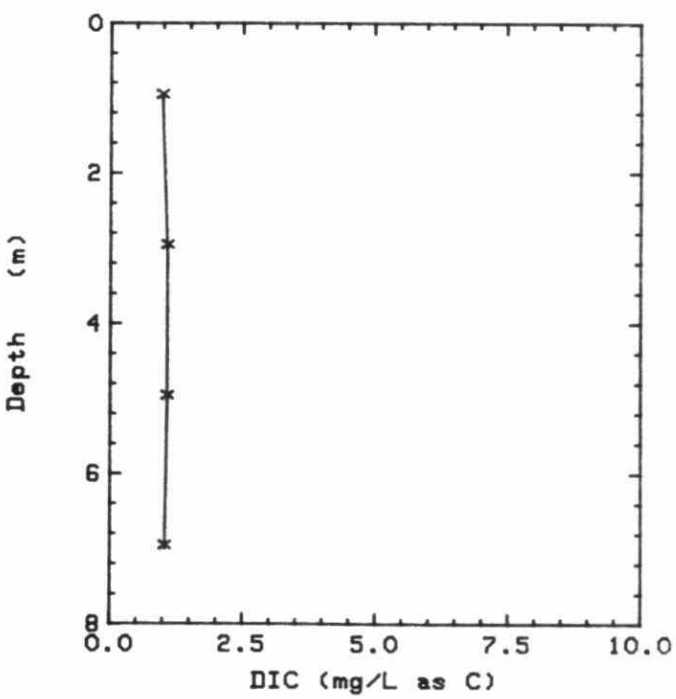

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
DIC (mg/L as C)

# FAWN 81.09.30

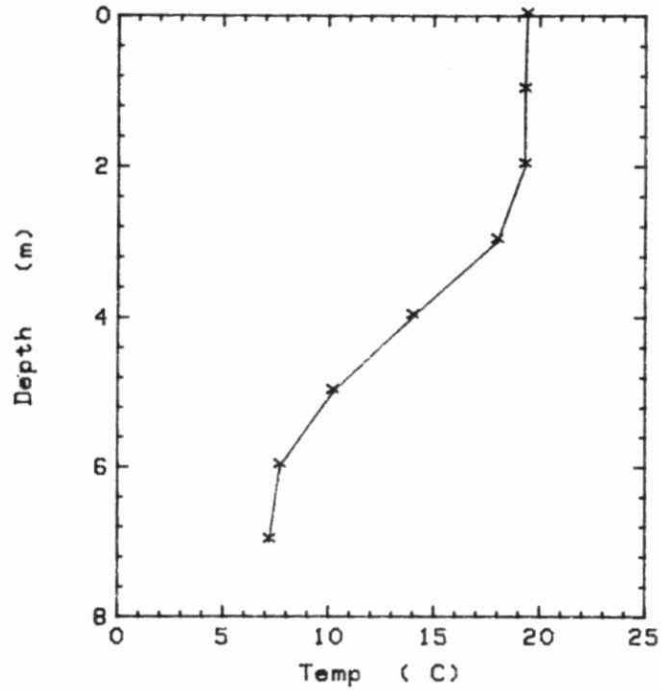

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

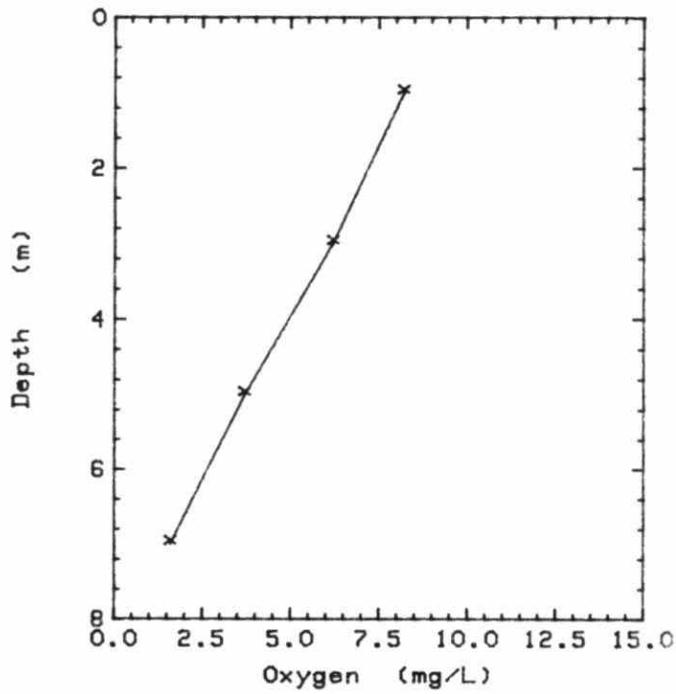

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

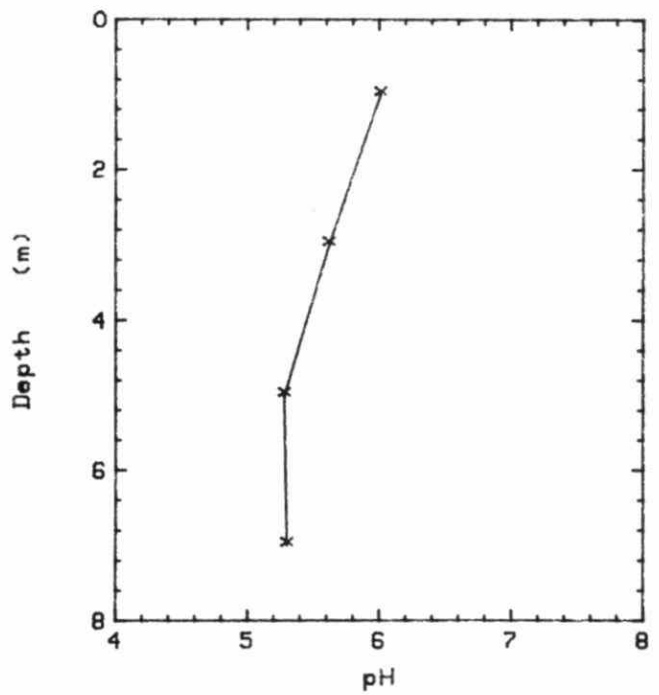

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH


Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
DIC (mg/L as C)

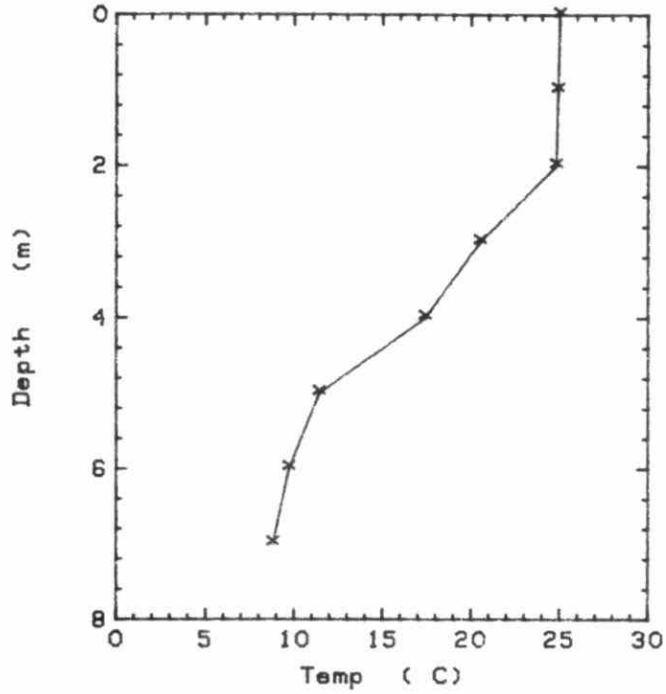
# FAWN 82.06.15

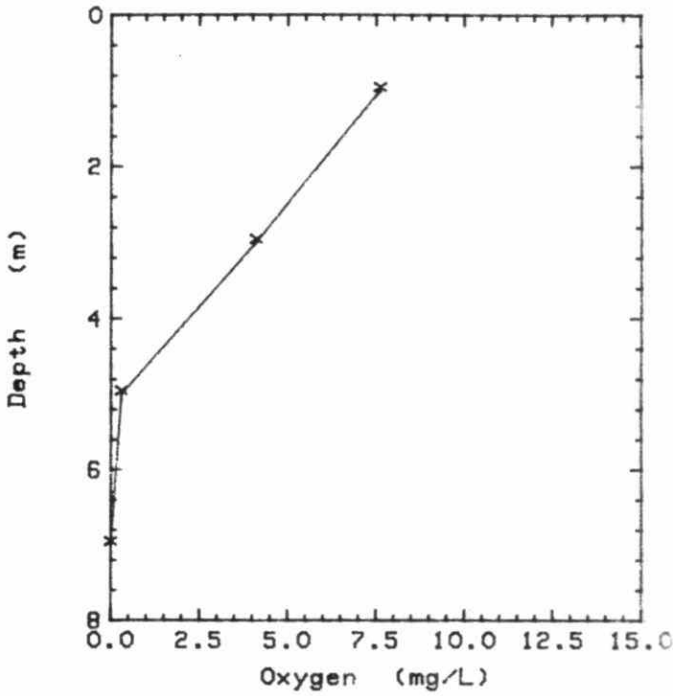

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

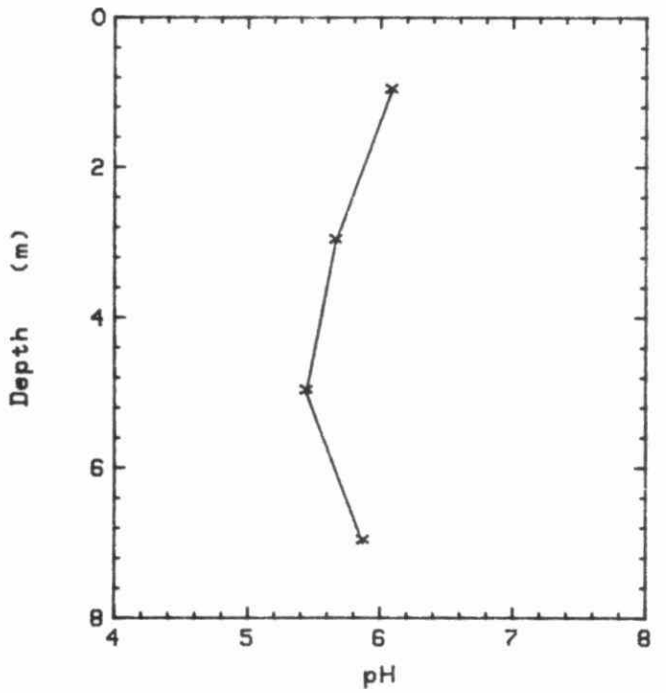

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)


Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

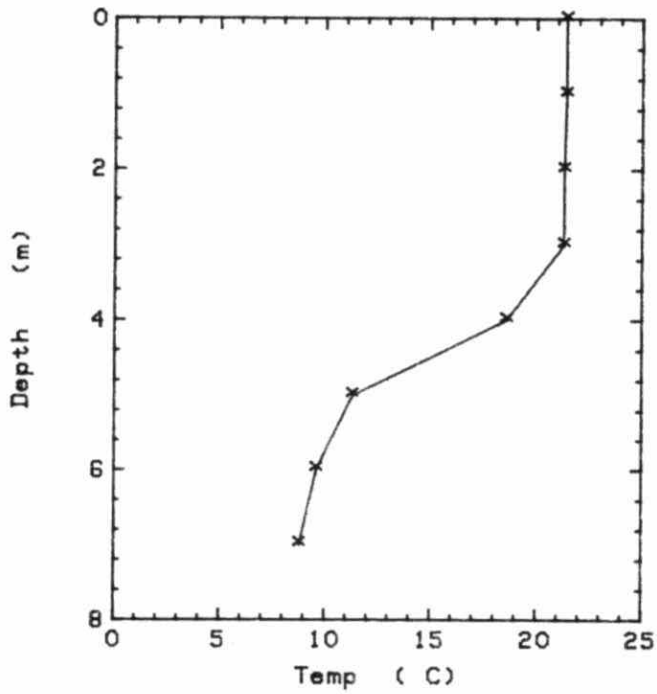
# FAWN 82.07.19

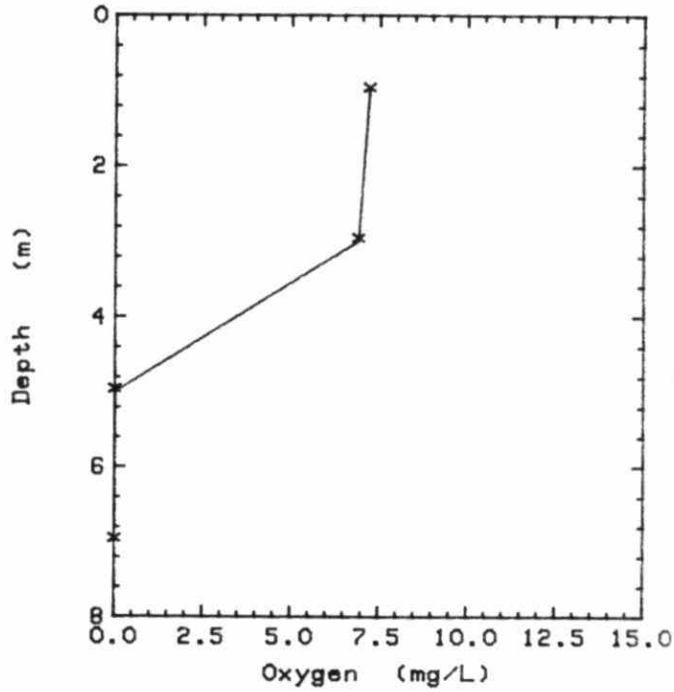

Depth (m)
0
2
4
6
8
0 5 10 15 20 25 30
Temp ( C)

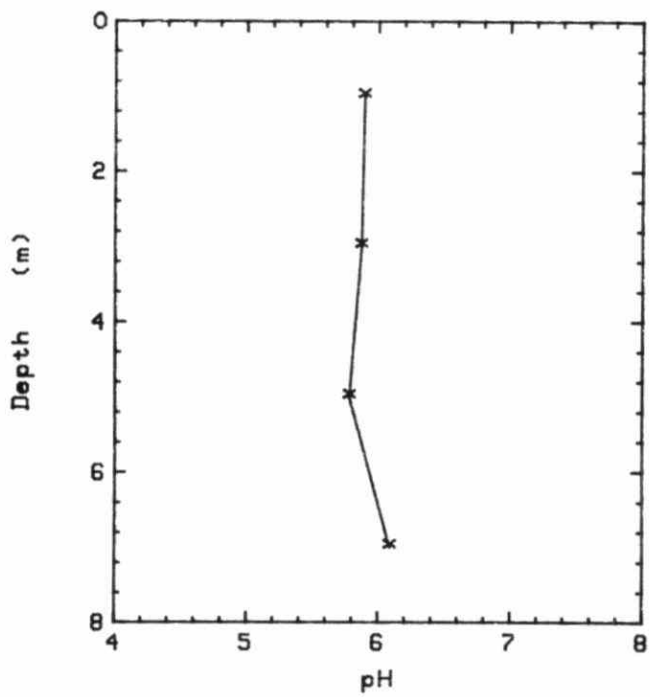

Depth (m)
0
2
4
6
8
0.0 2.5 5.0 7.5 10.0 12.5 15.0
Oxygen (mg/L)


Depth (m)
0
2
4
6
8
4 5 6 7 8
pH

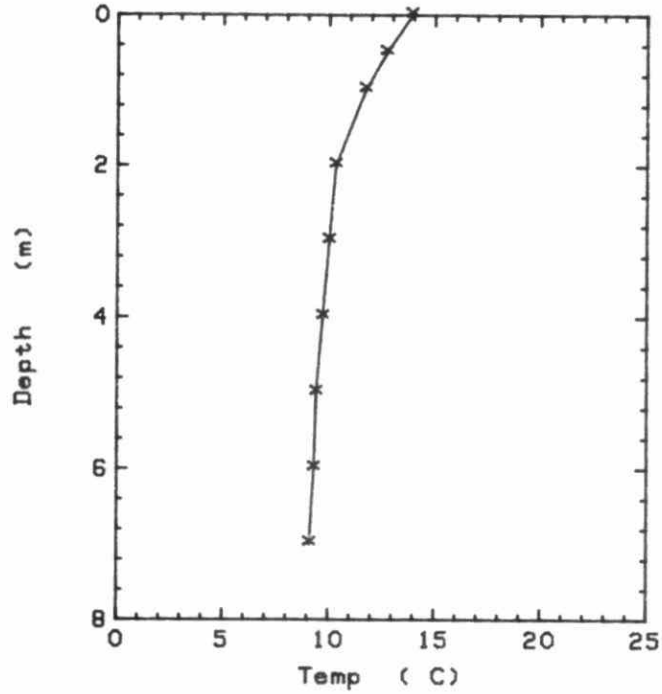
# FAWN 82.08.09

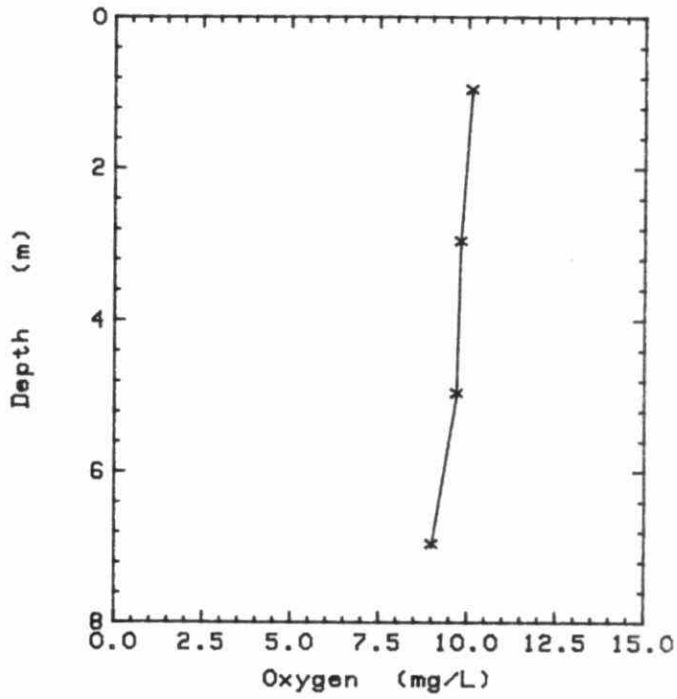

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

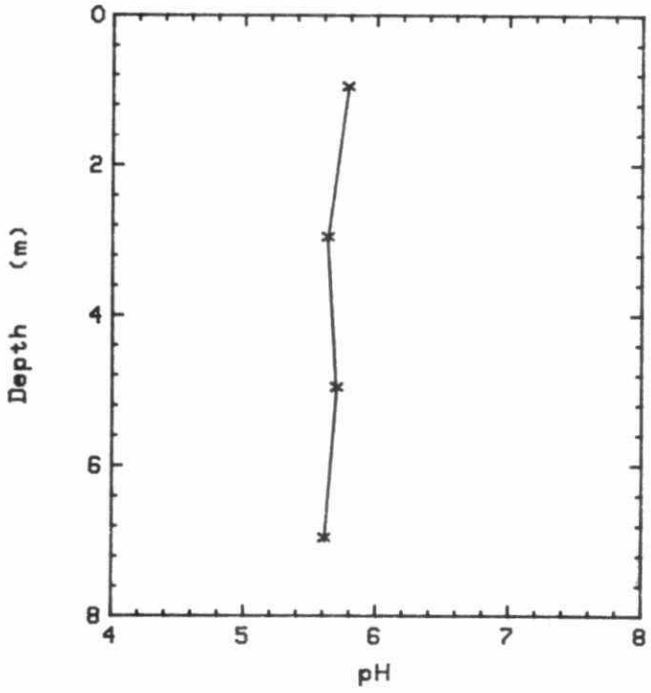

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)


Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

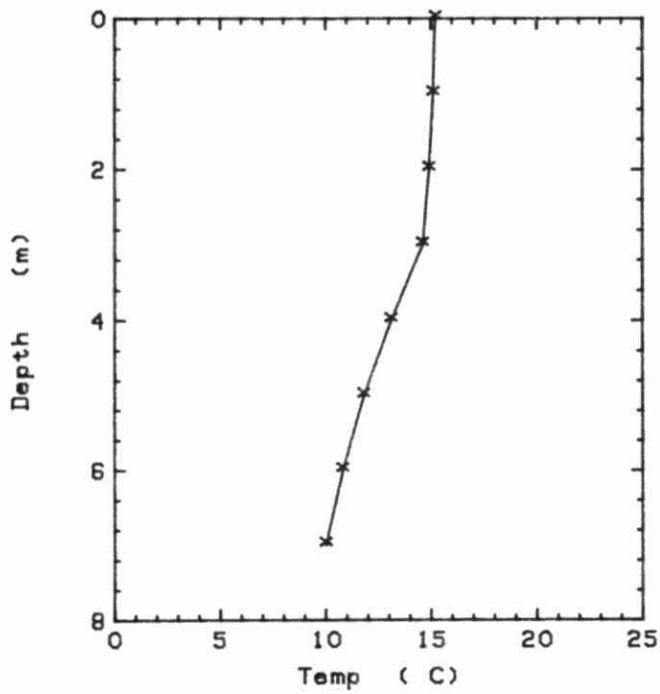
# FAWN 83.05.12

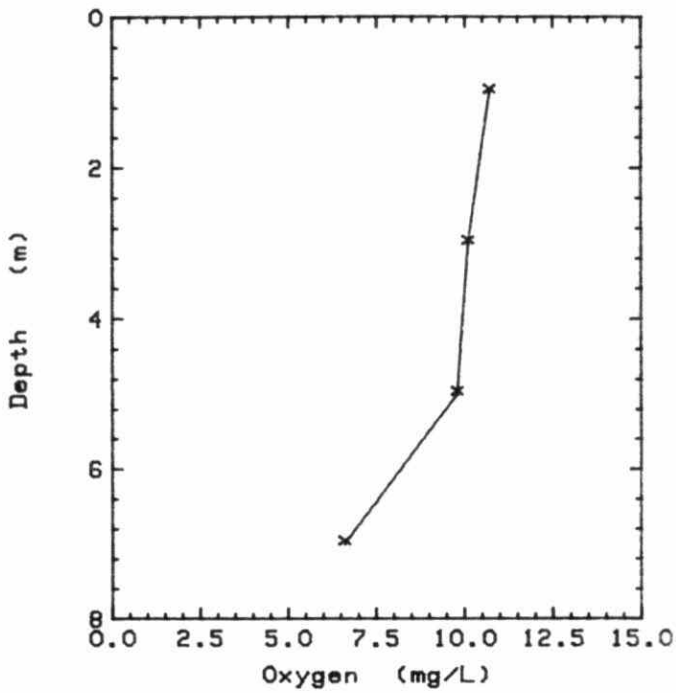

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

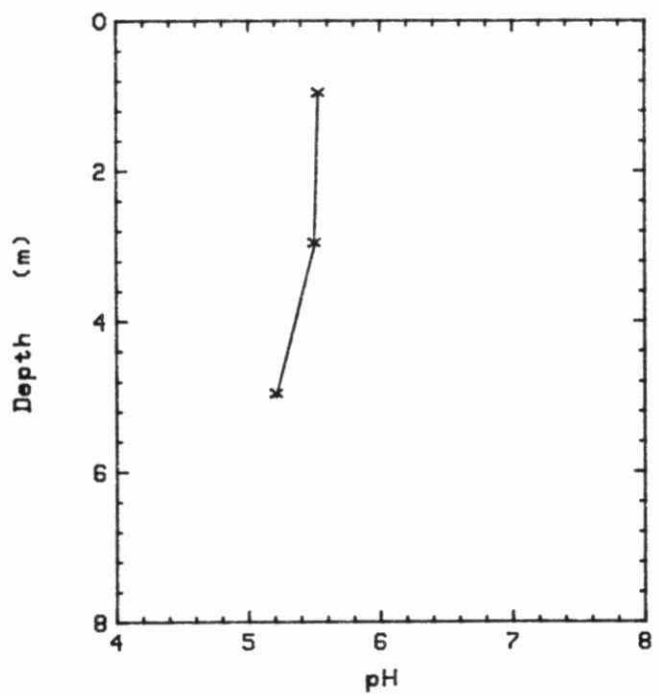

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

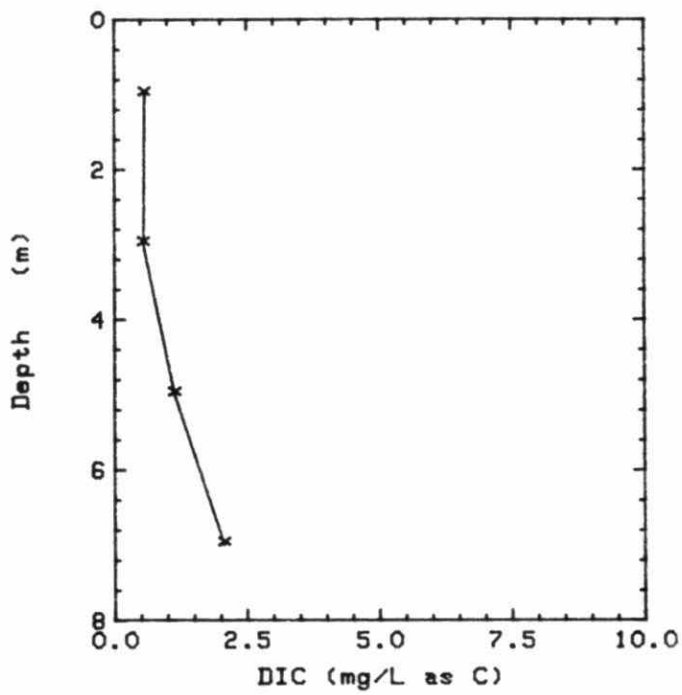

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

# FAWN 83.06.09

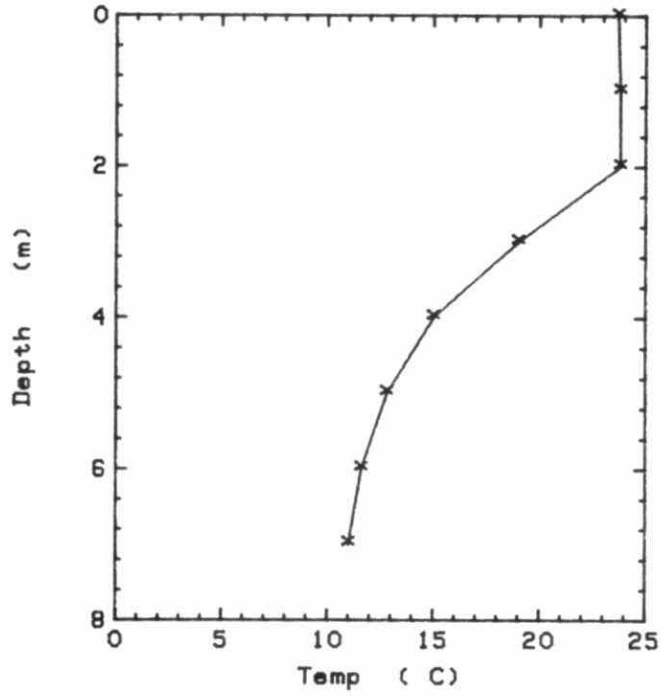

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

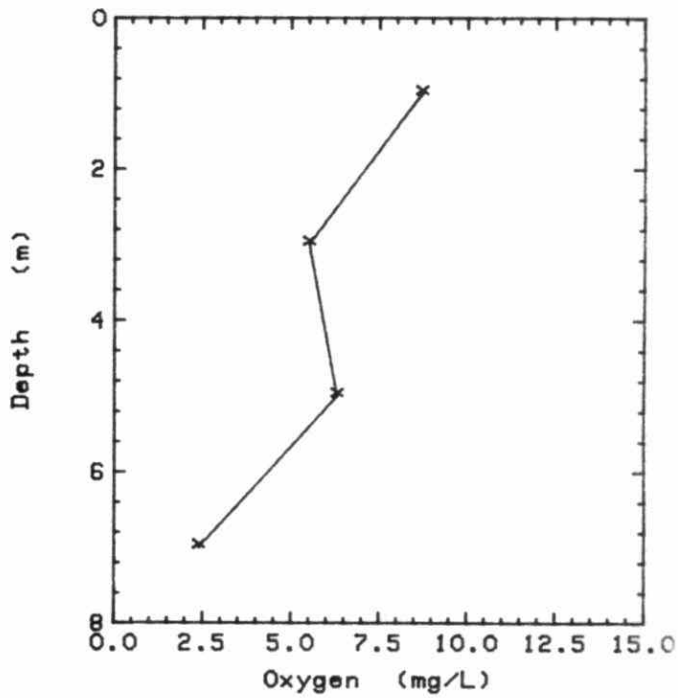

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

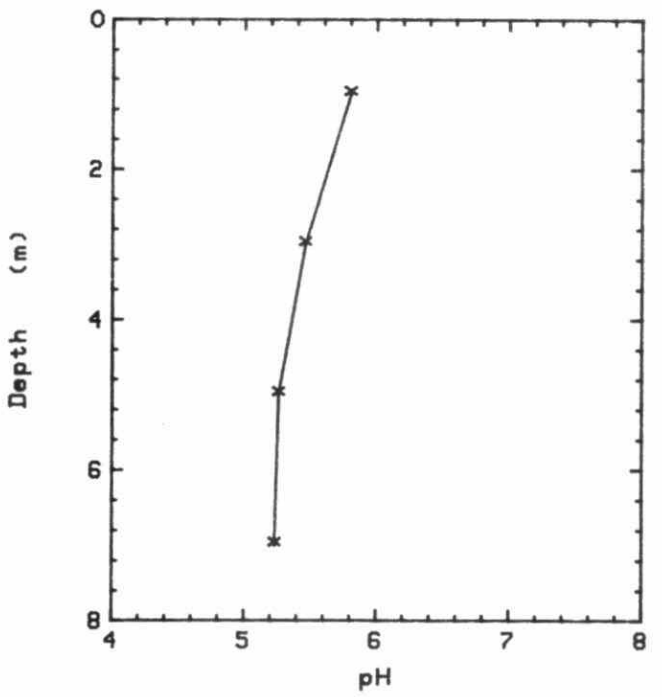

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

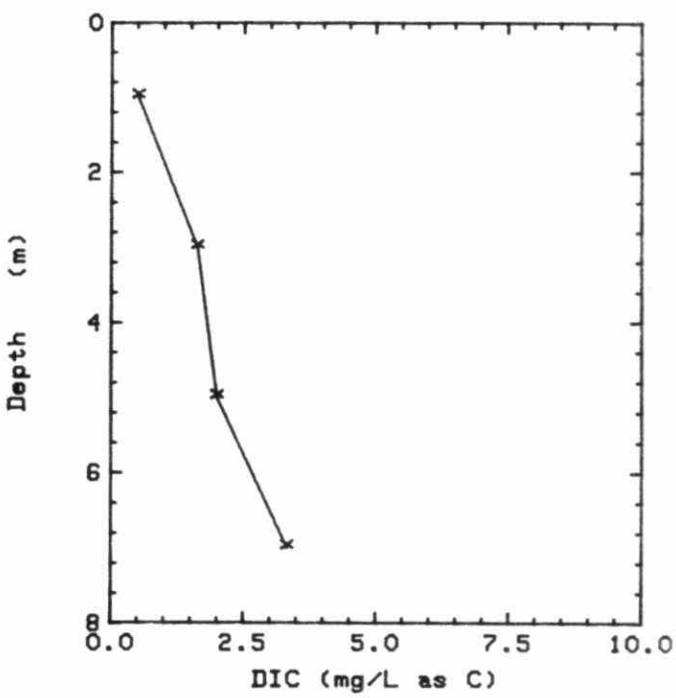

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
DIC (mg/L as C)

# FAWN 83.07.05

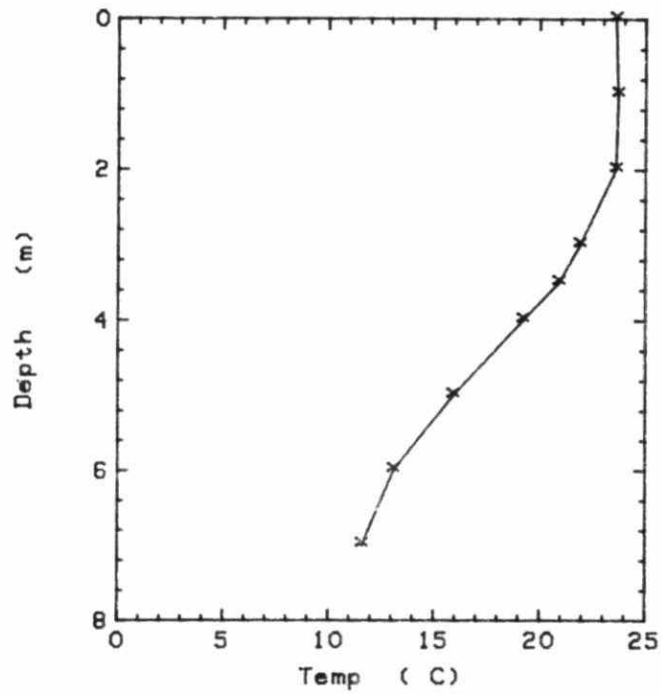

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

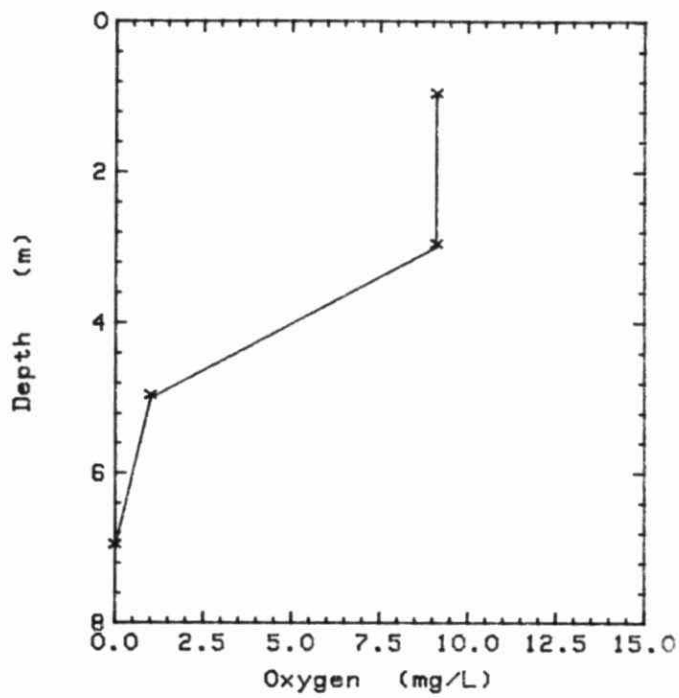

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

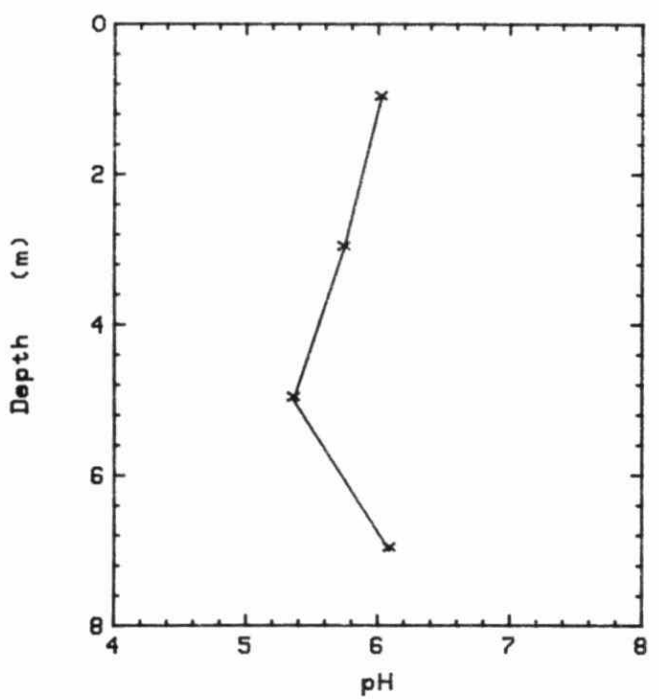

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

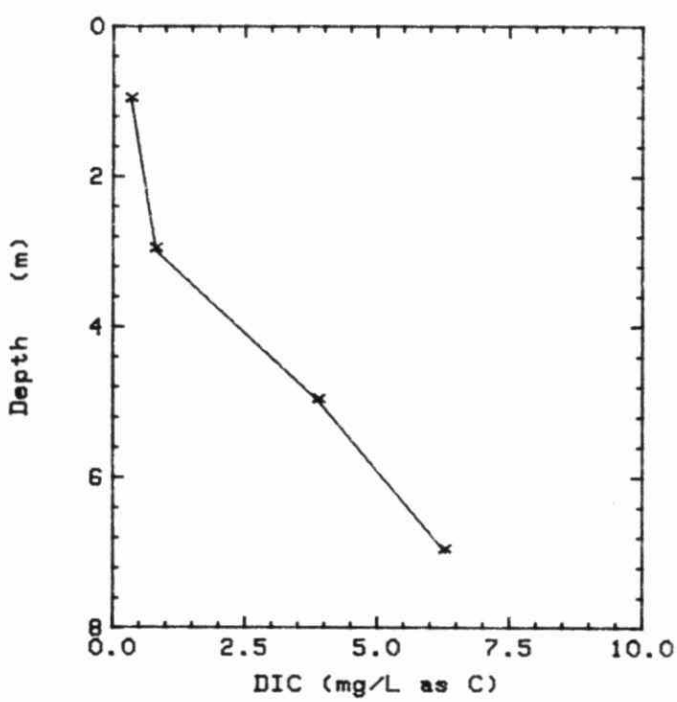

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
DIC (mg/L as C)

# FAWN 83.08.30

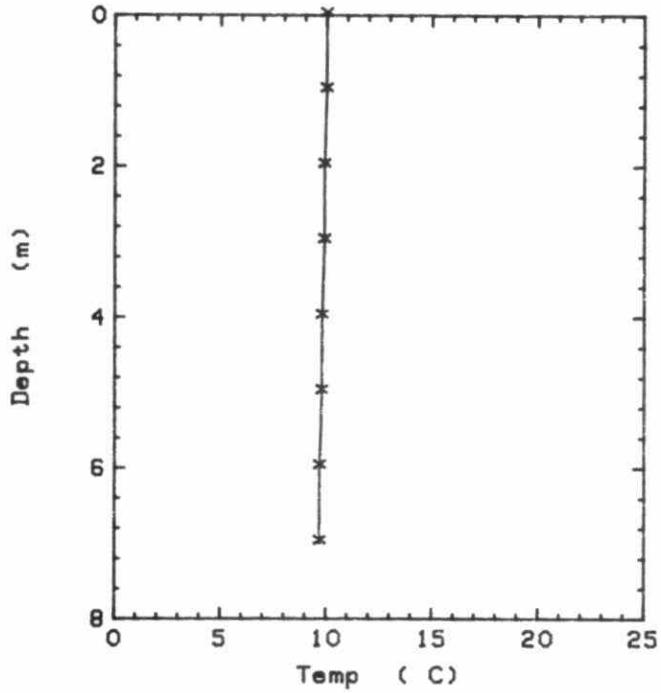

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

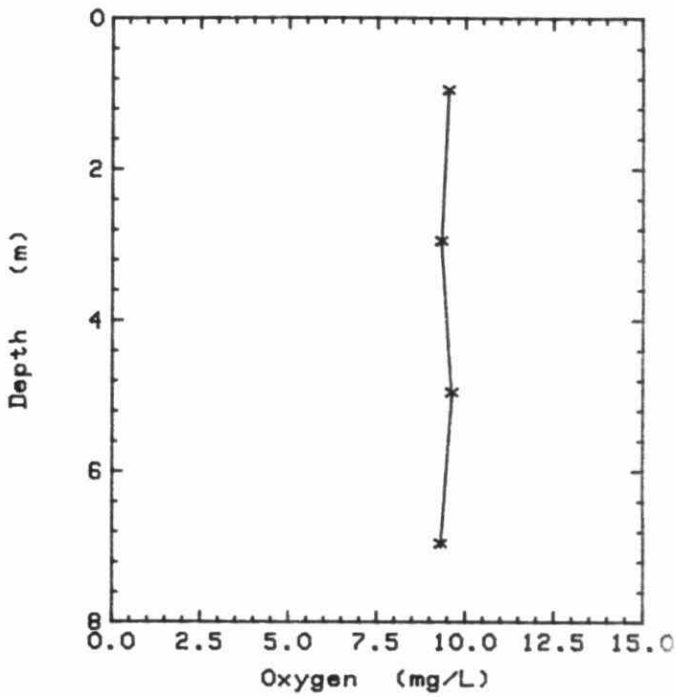

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

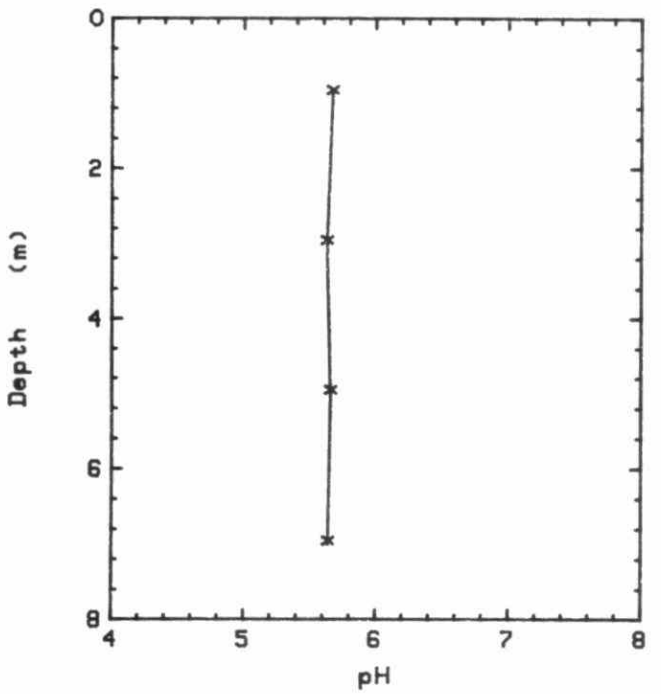

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

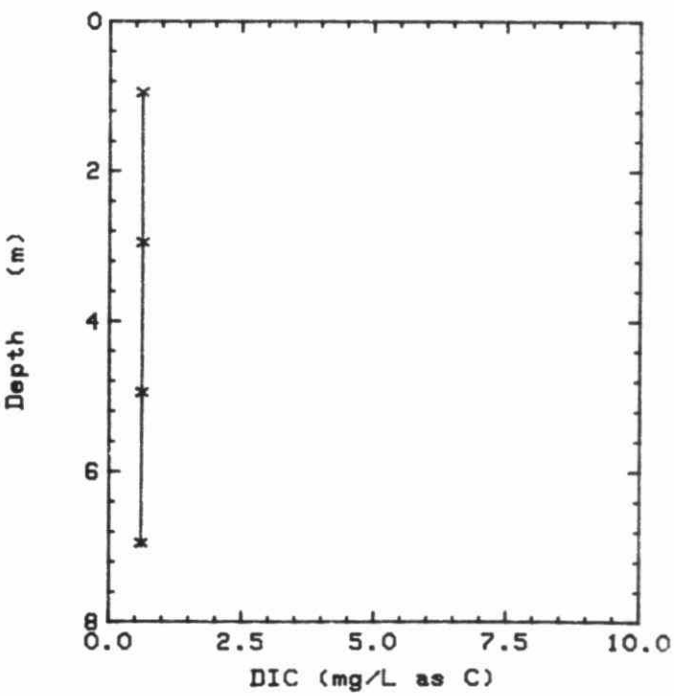

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
DIC (mg/L as C)

# FAWN 83.10.20

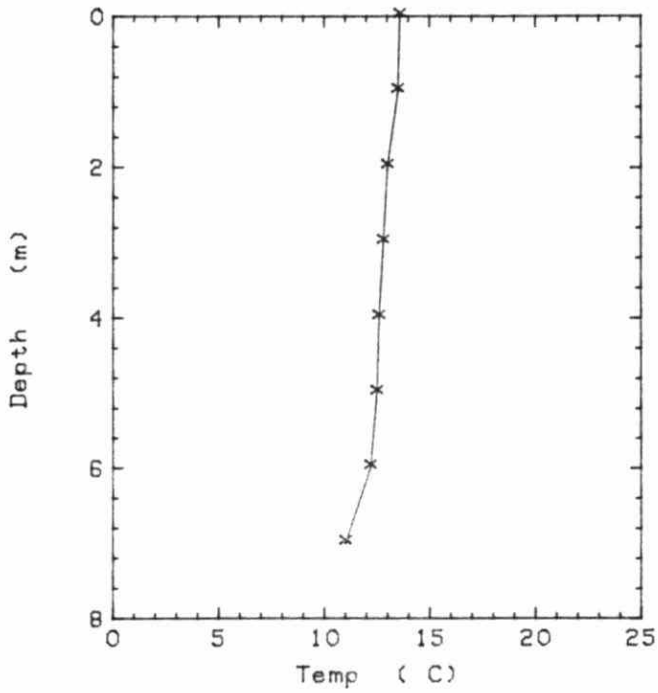

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

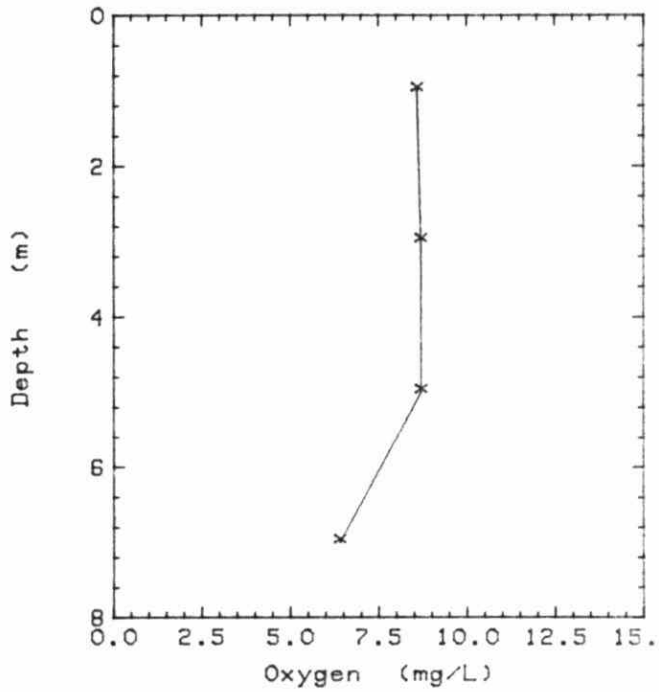

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

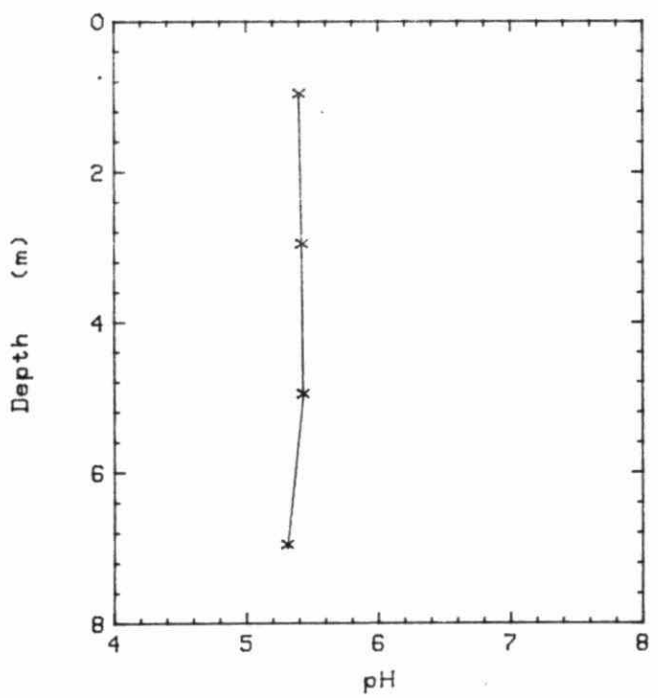

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH


Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
DIC (mg/L as C)

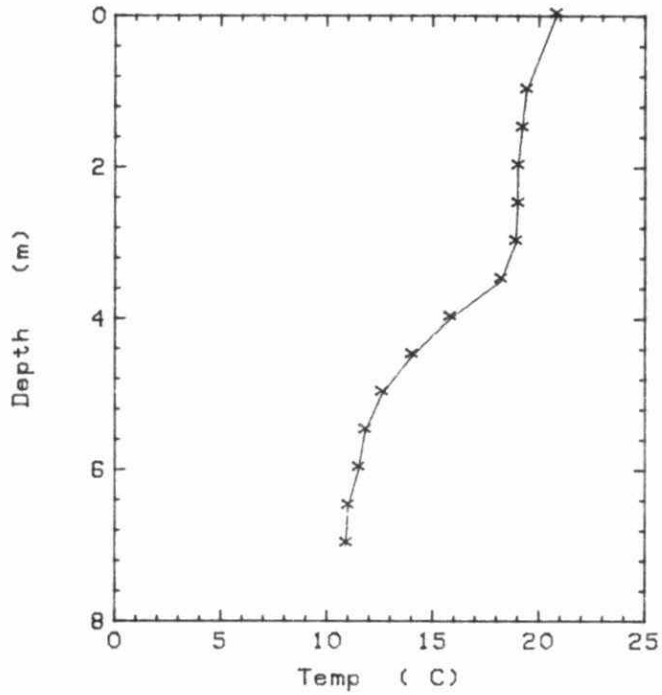
# FAWN 84.05.31

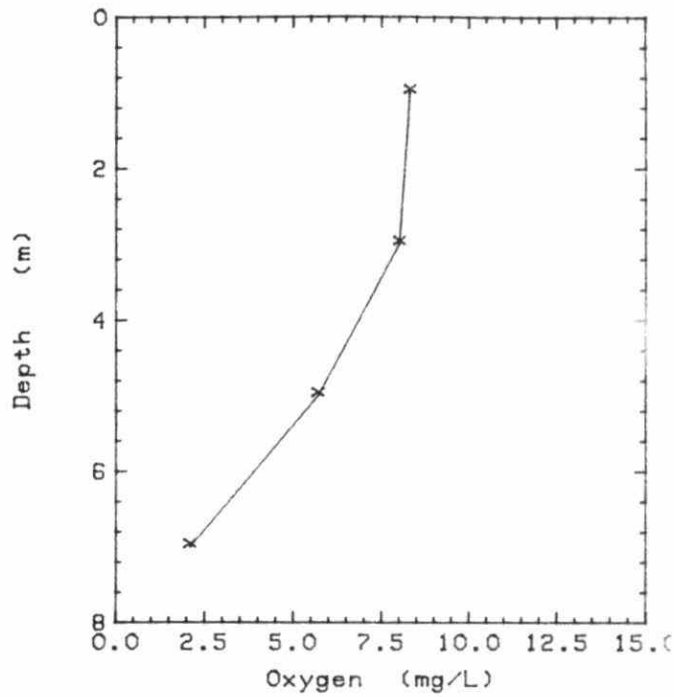

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

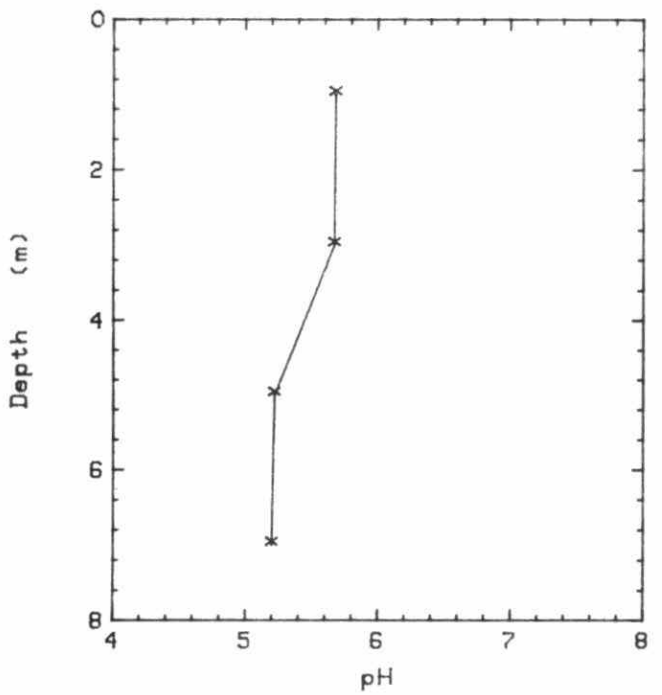

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
Oxygen (mg/L)

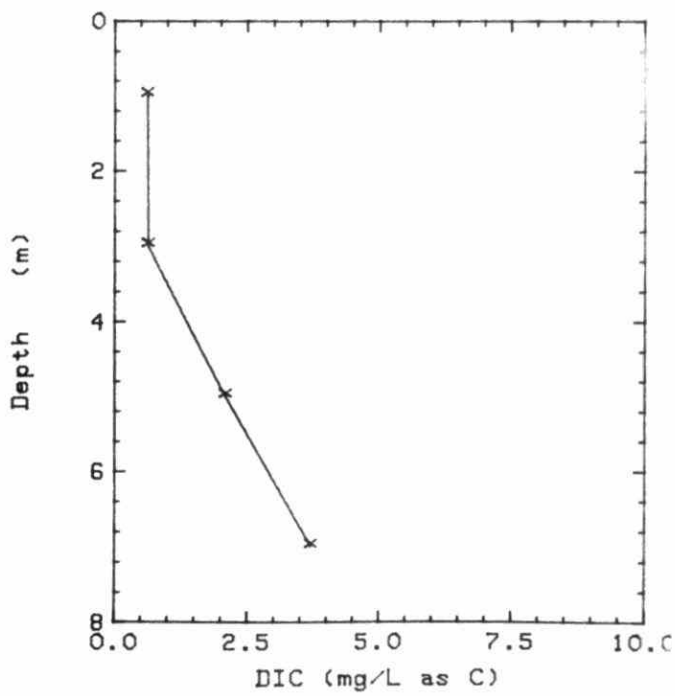

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

# FAWN 84.06.26

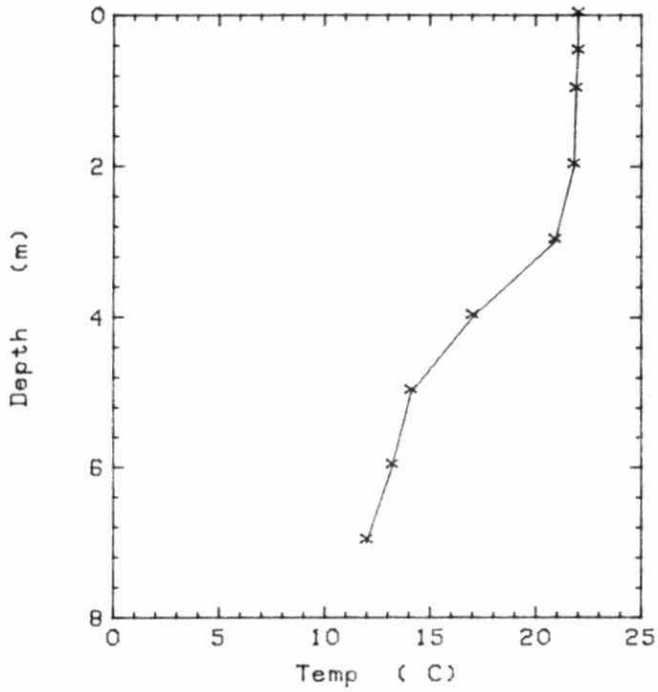

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

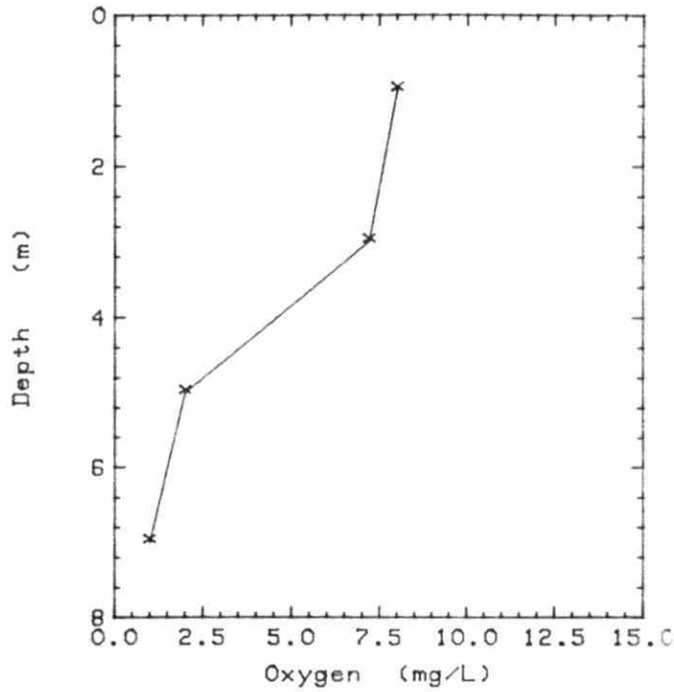

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

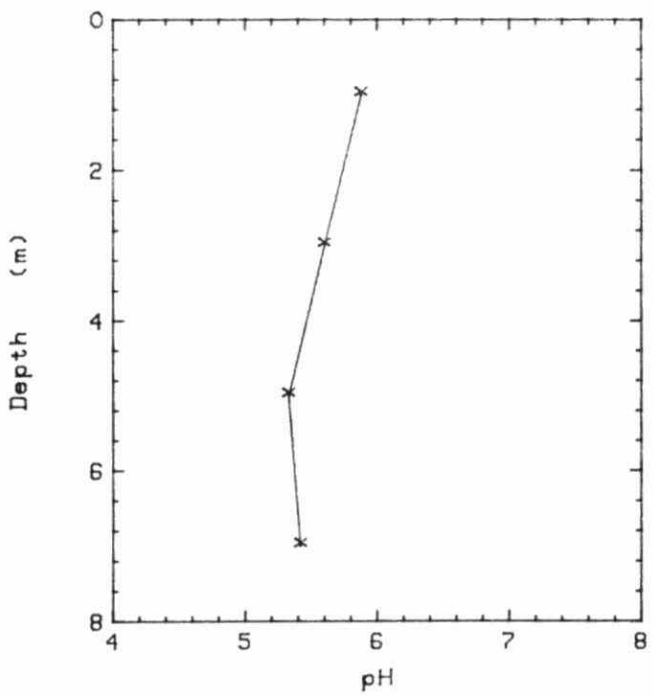

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

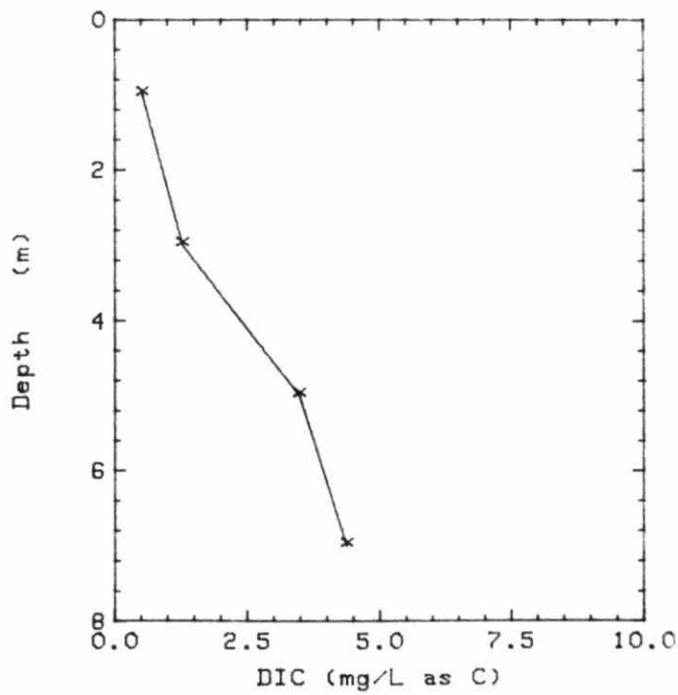

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
DIC (mg/L as C)

# FAWN 84.08.02

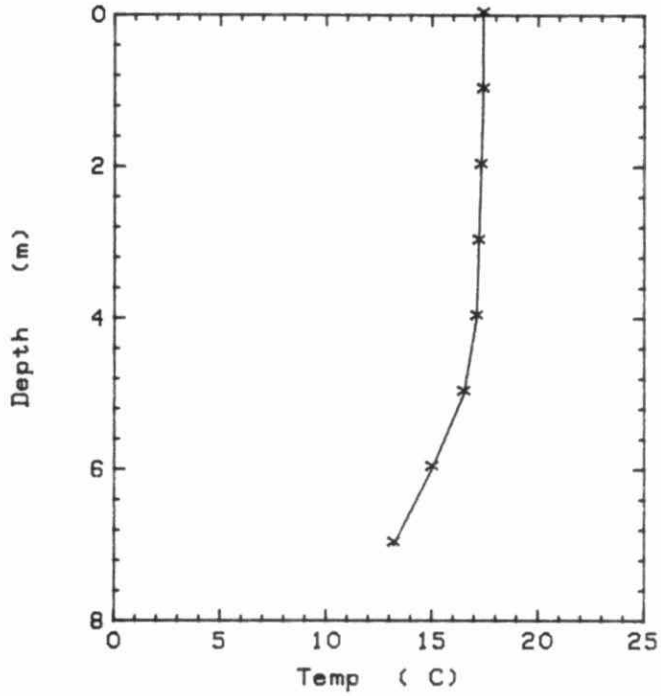

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

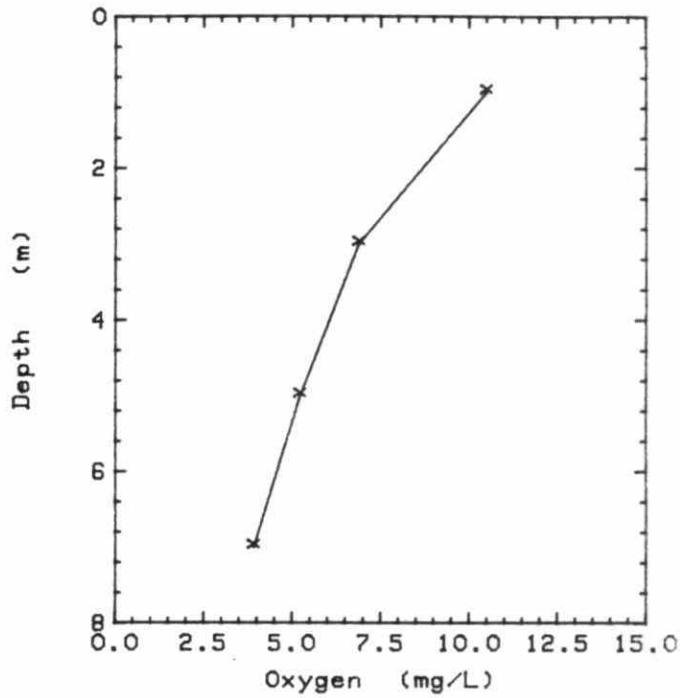

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

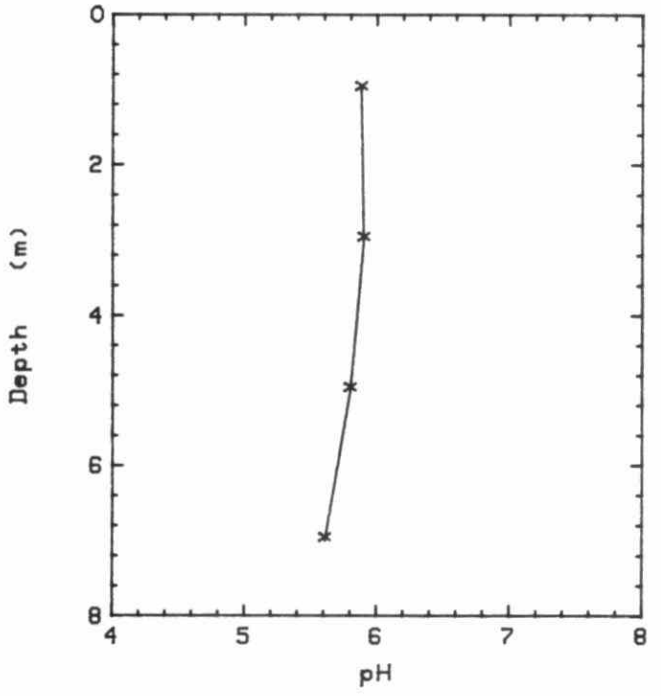

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

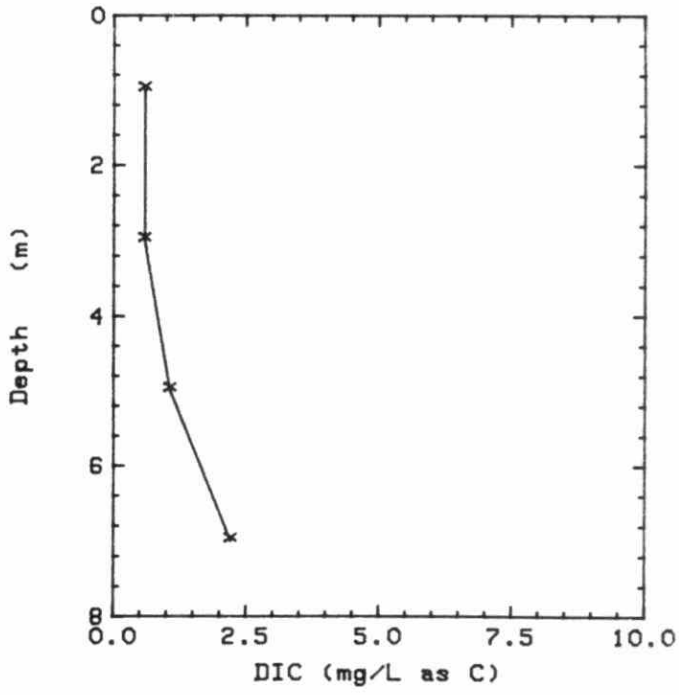

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
DIC (mg/L as C)

# FAWN 84.09.25

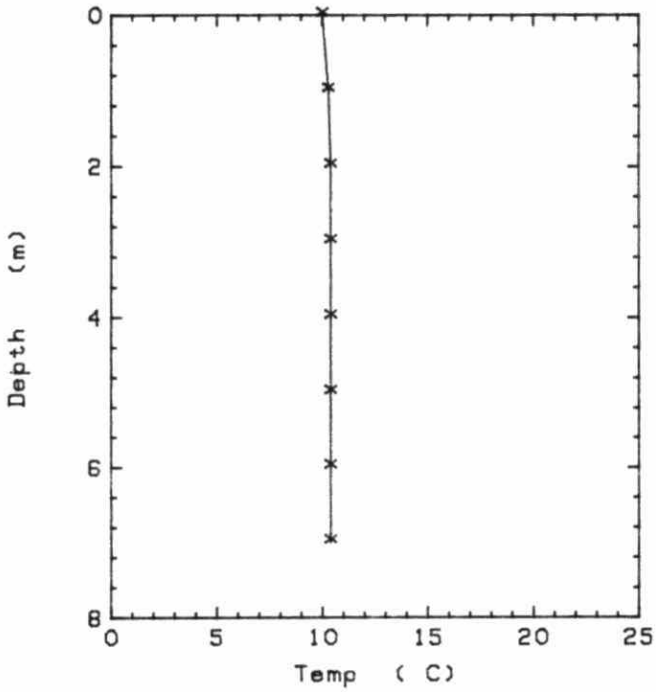

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

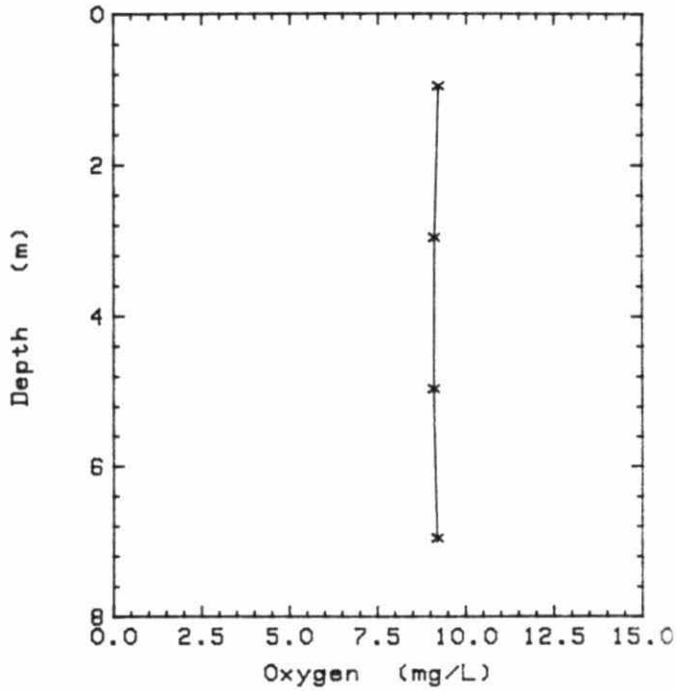

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

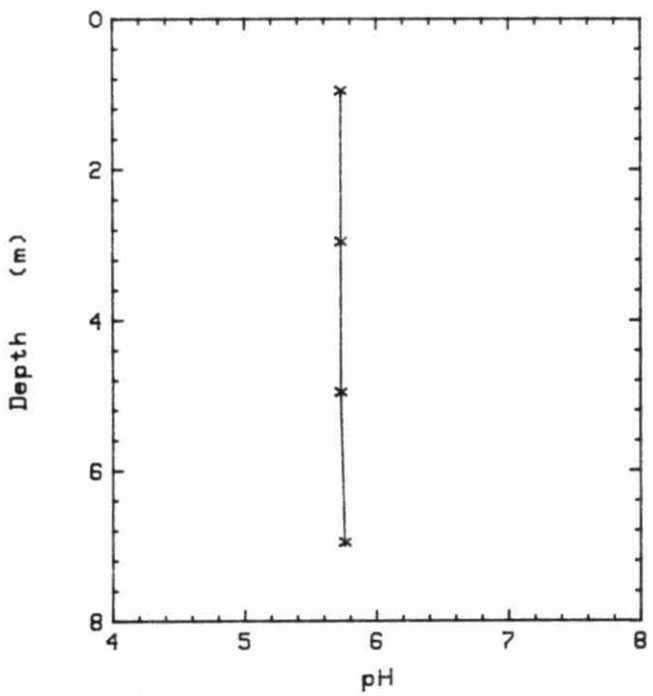

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

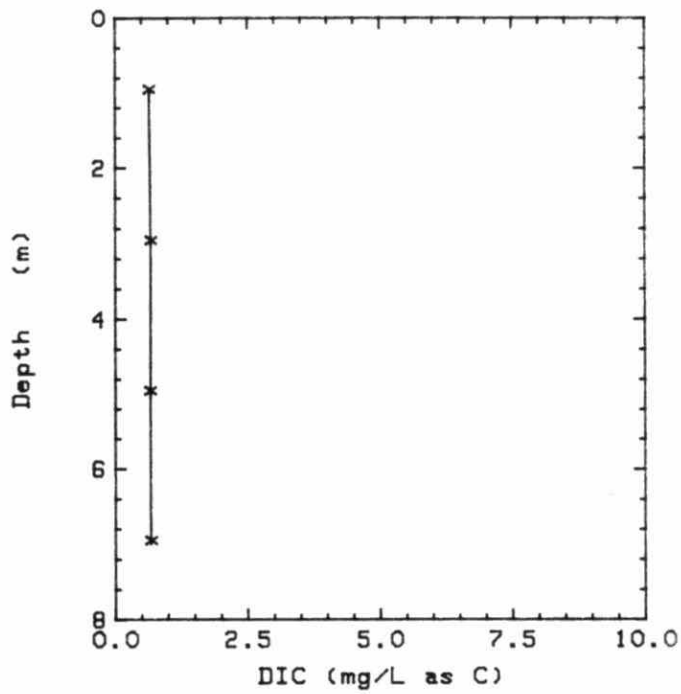

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
DIC (mg/L as C)

# FAWN 84.10.30

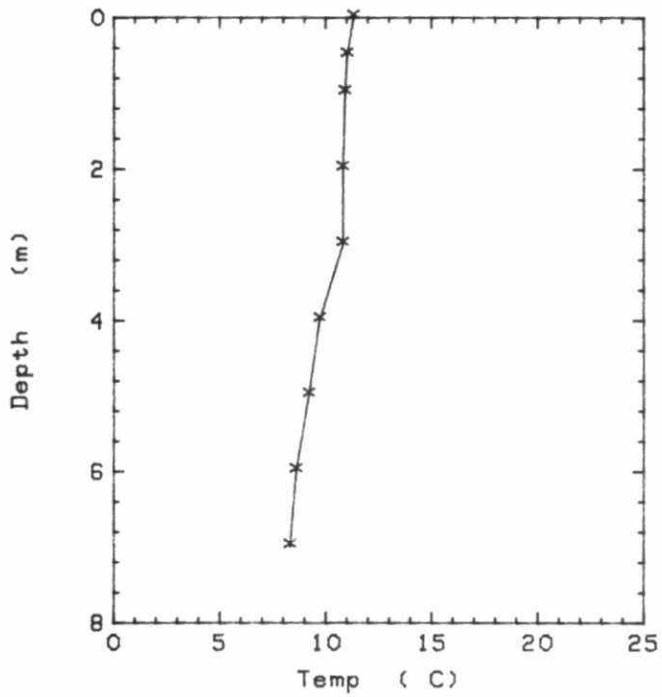

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

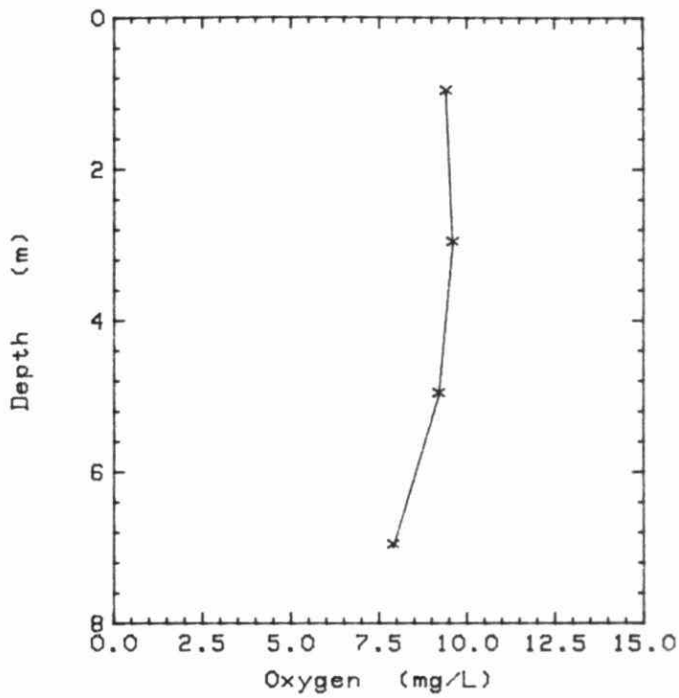

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

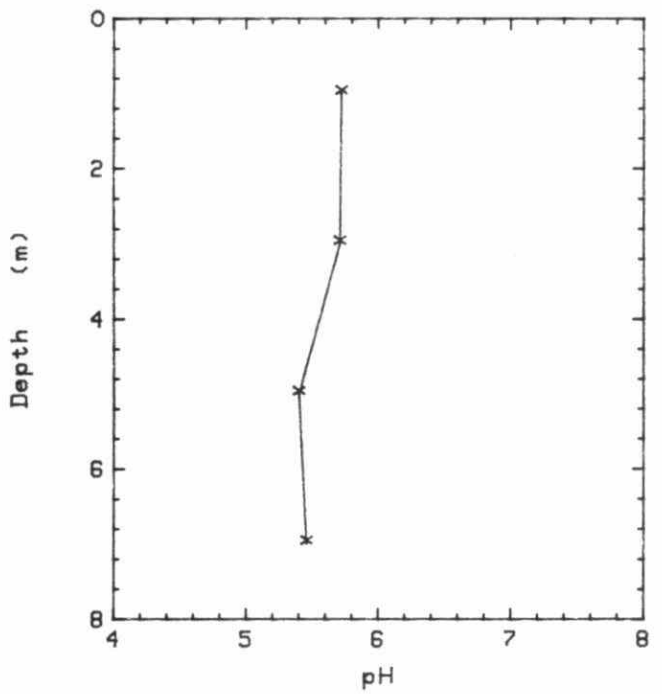

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH


Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
DIC (mg/L as C)

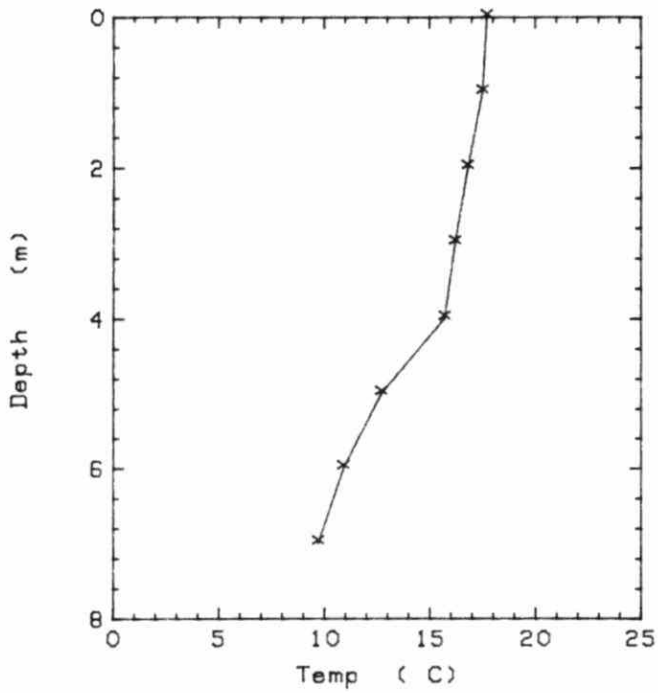
# FAWN 85.05.07

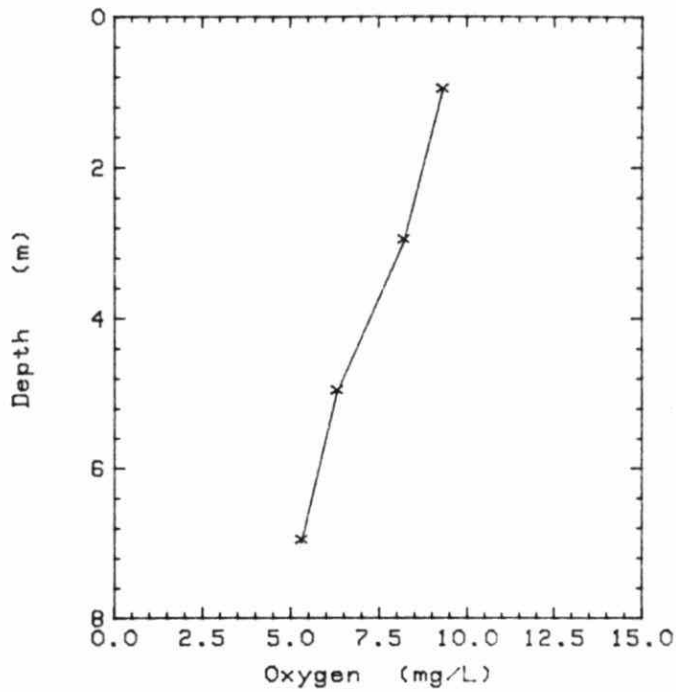

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

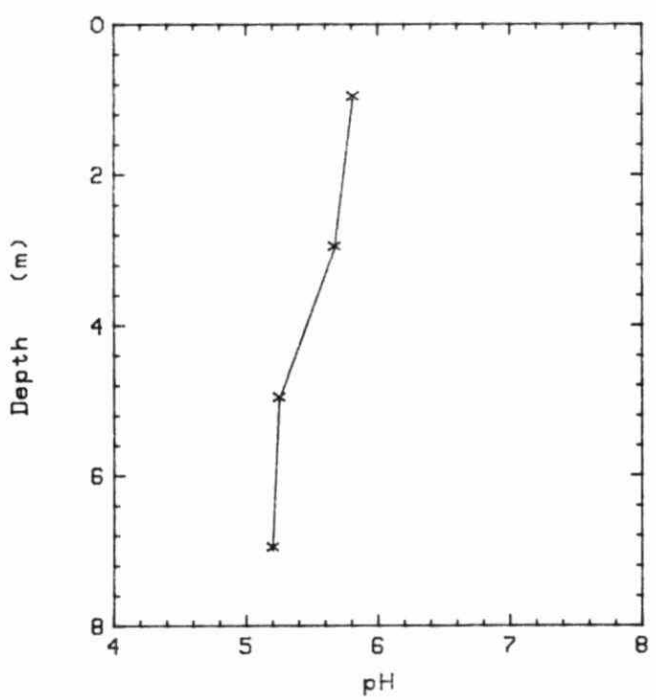

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

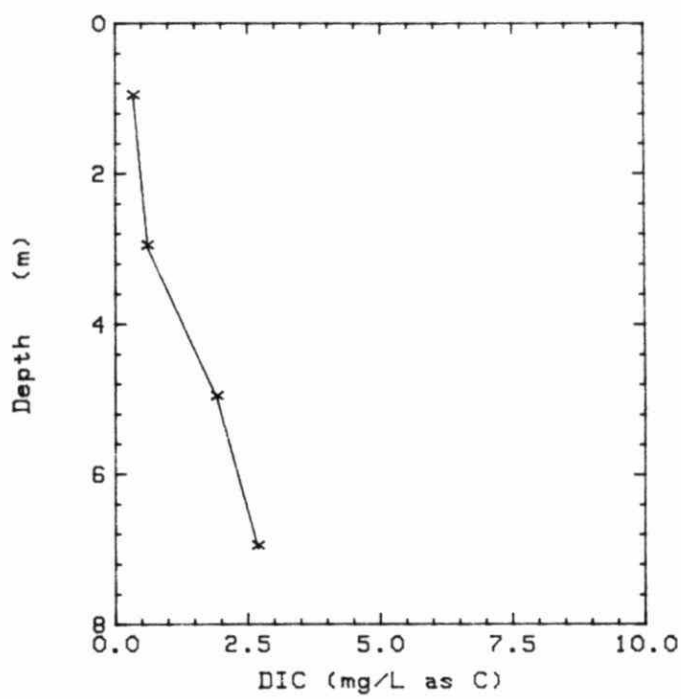

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

# FAWN 85.06.06

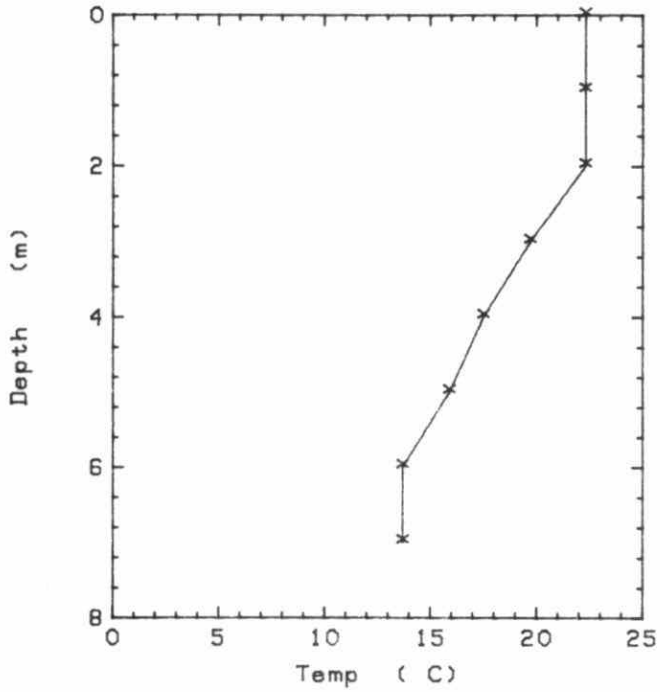

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

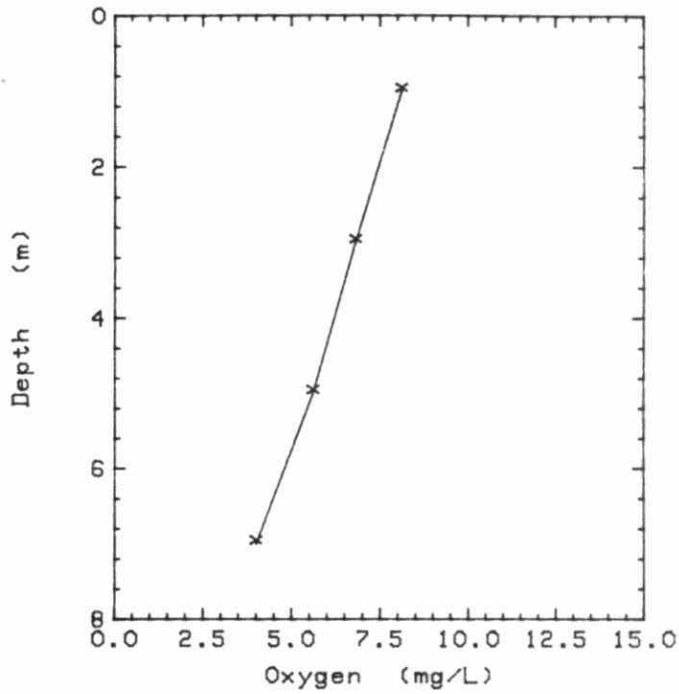

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

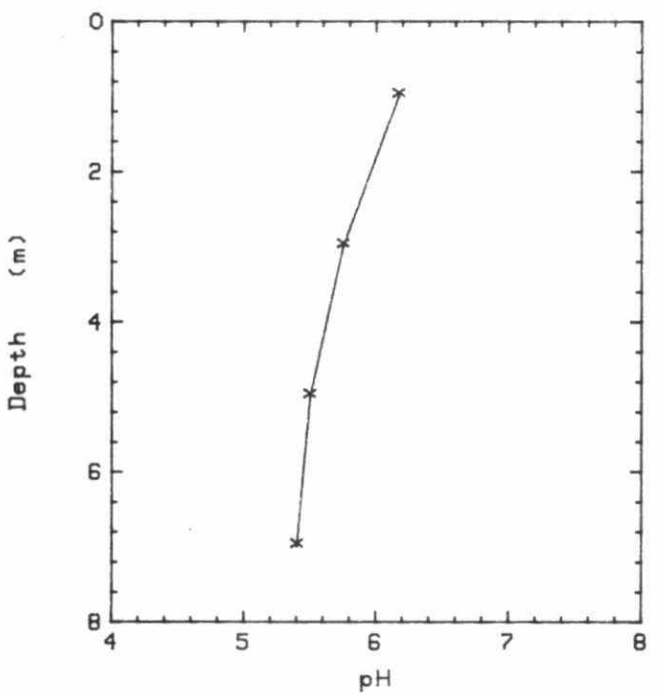

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

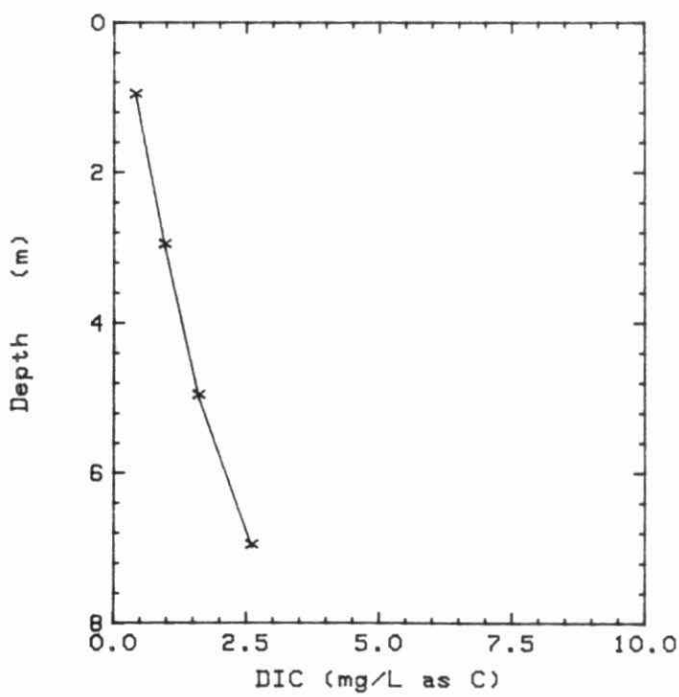

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
DIC (mg/L as C)

# FAWN 85.07.03

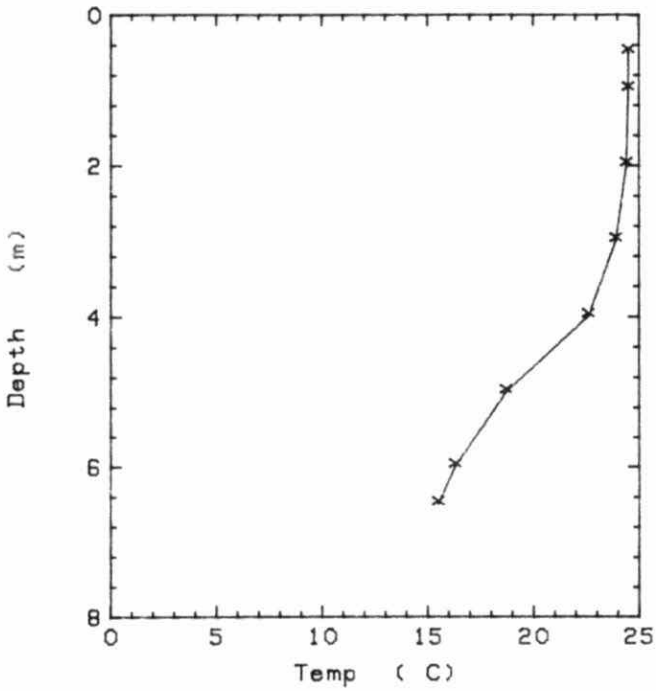

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

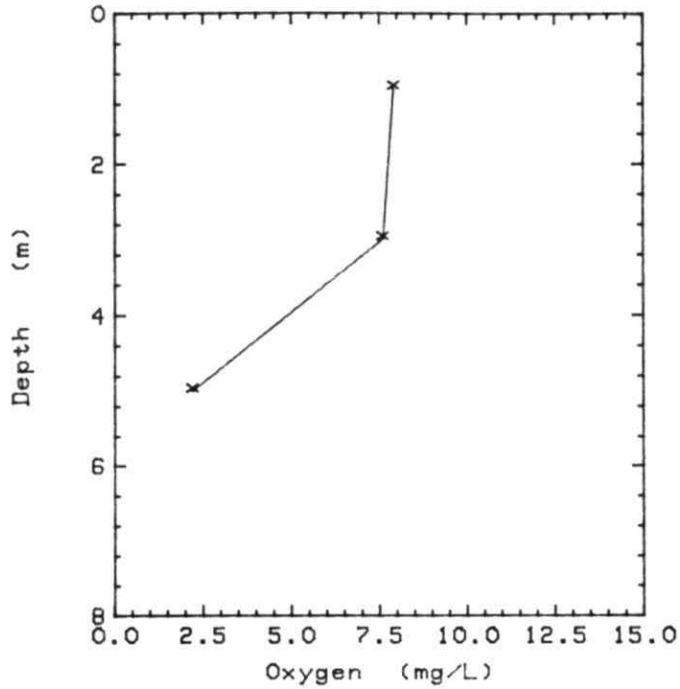

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

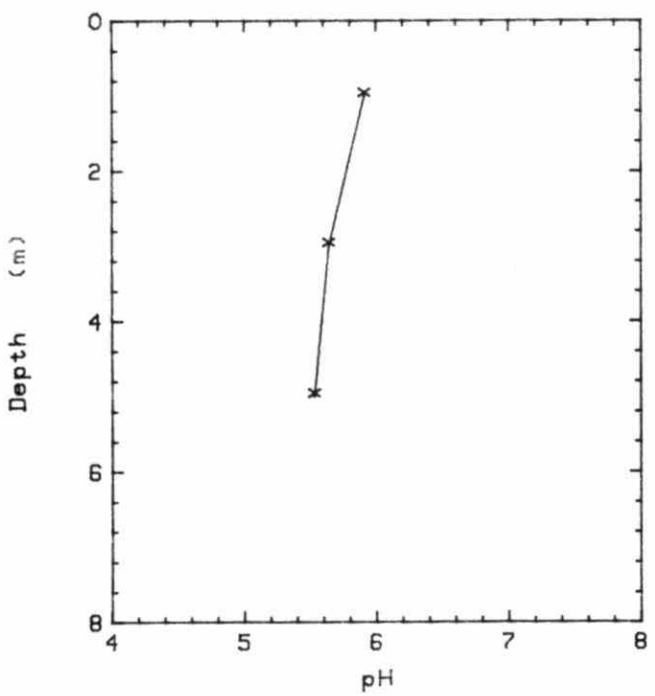

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH

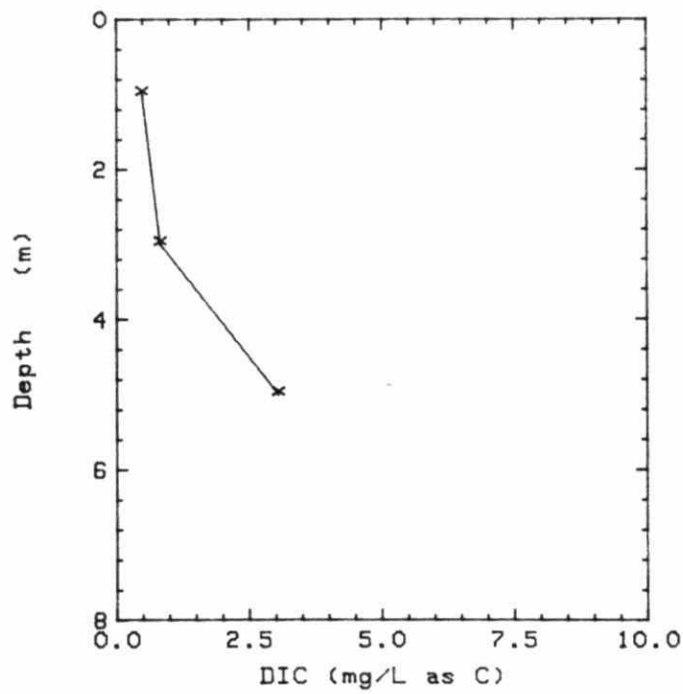

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
DIC (mg/L as C)

# FAWN 85.08.01

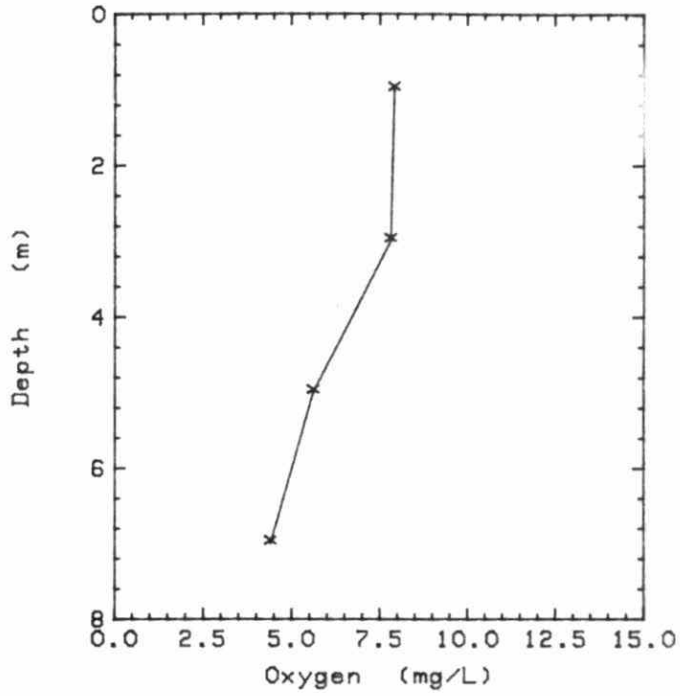

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

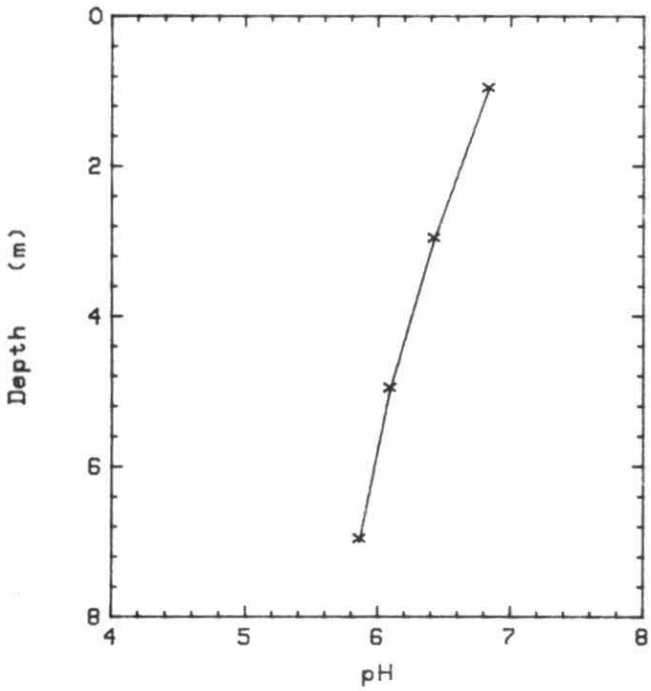

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

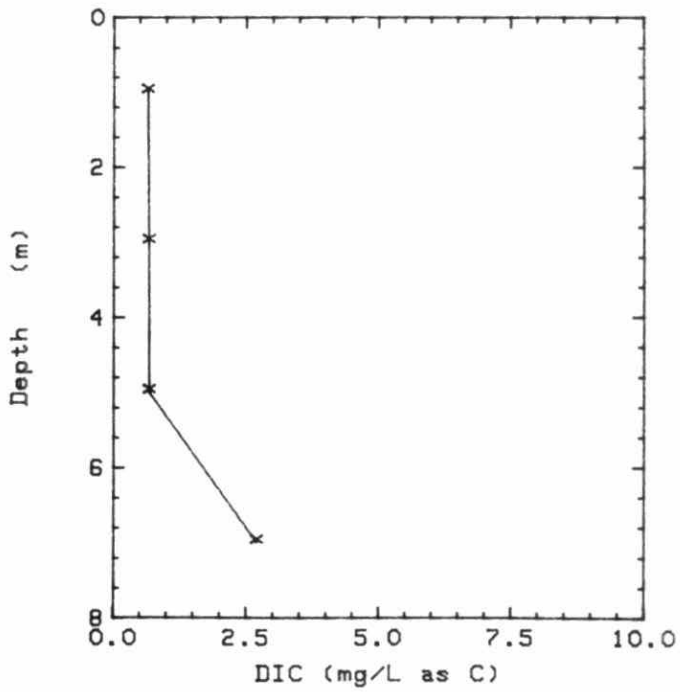

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH


Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
DIC (mg/L as C)

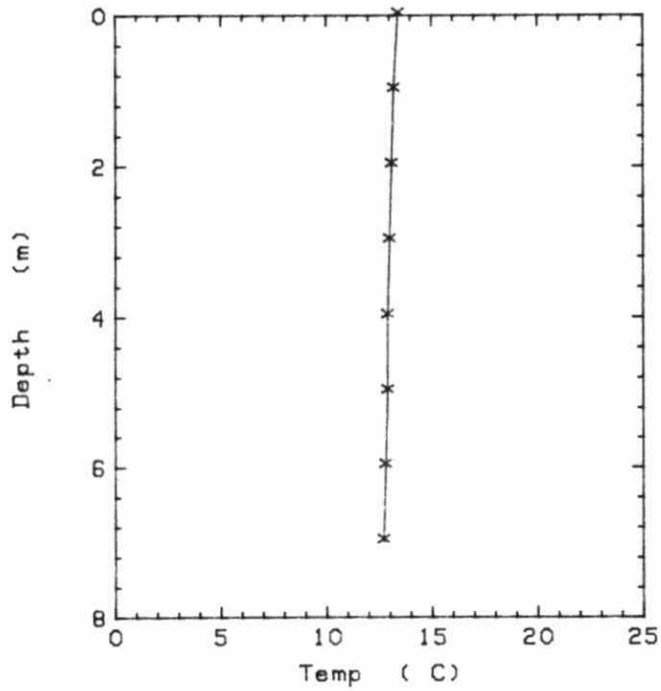
# FAWN 85.09.04

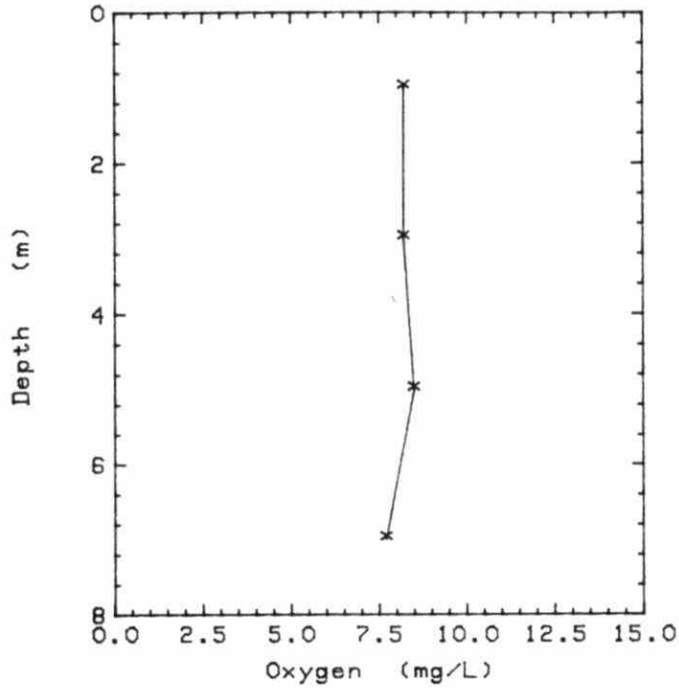

Depth (m)
0
2
4
6
8
0.0 2.5 5.0 7.5 10.0 12.5 15.0
Oxygen (mg/L)

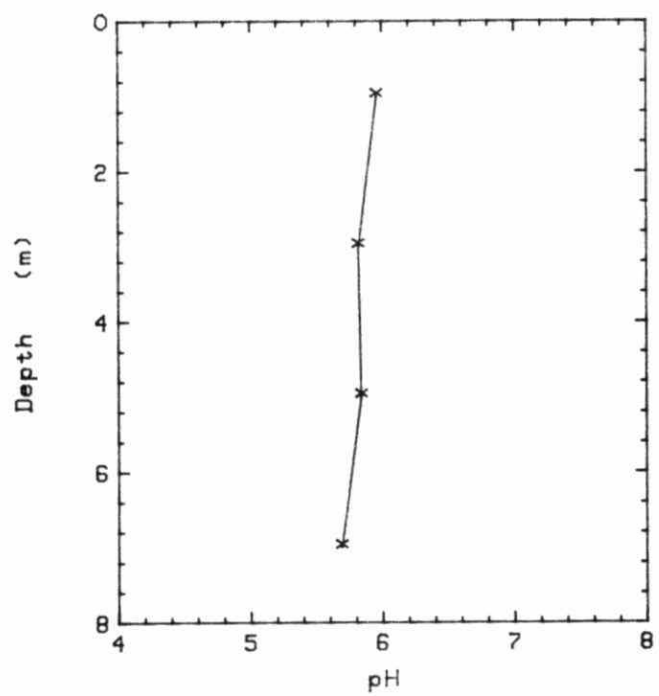

Depth (m)
0
2
4
6
8
4 5 6 7 8
pH

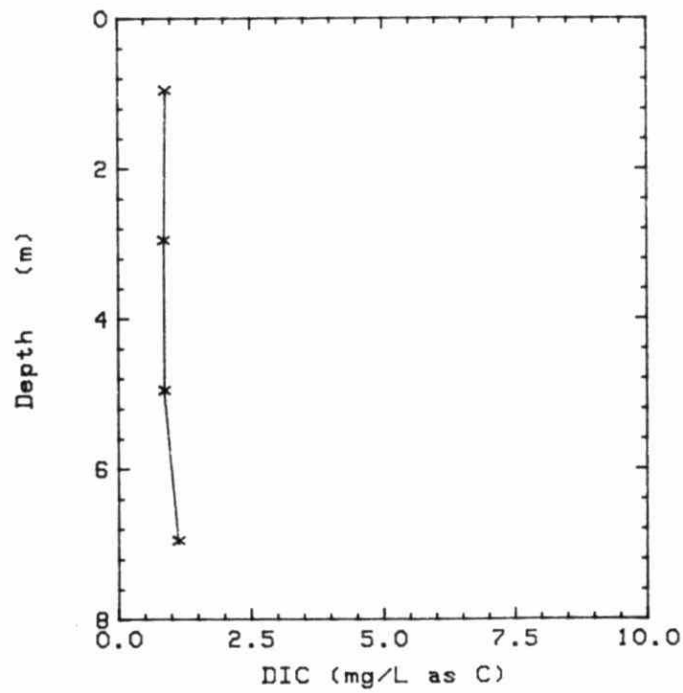

Depth (m)
0
2
4
6
8
0.0 2.5 5.0 7.5 10.0
DIC (mg/L as C)

# FAWN 85.10.10

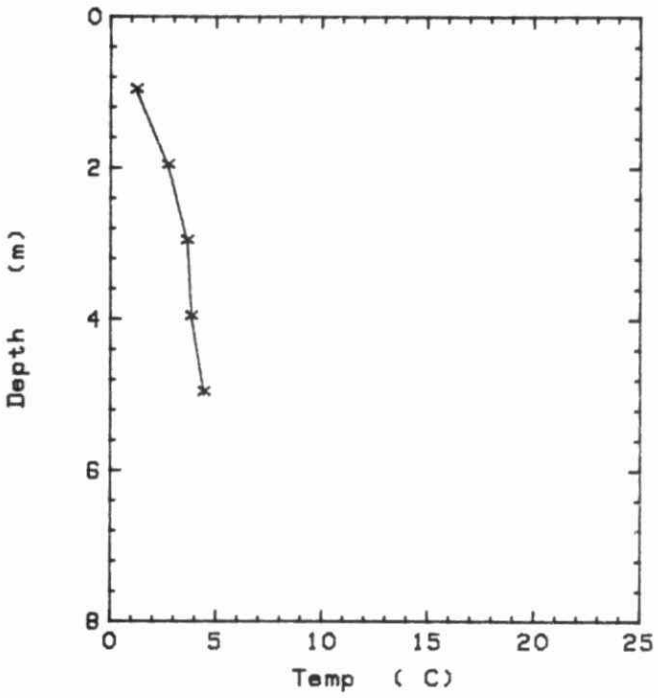

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)


Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

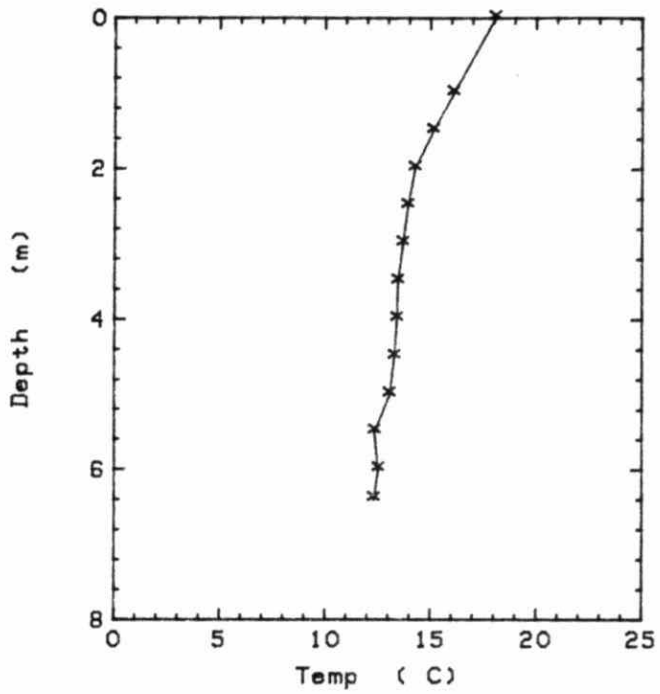

Depth (m)
0
2
4
6
8
4
5
6
7
8
pH


Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
DIC (mg/L as C)

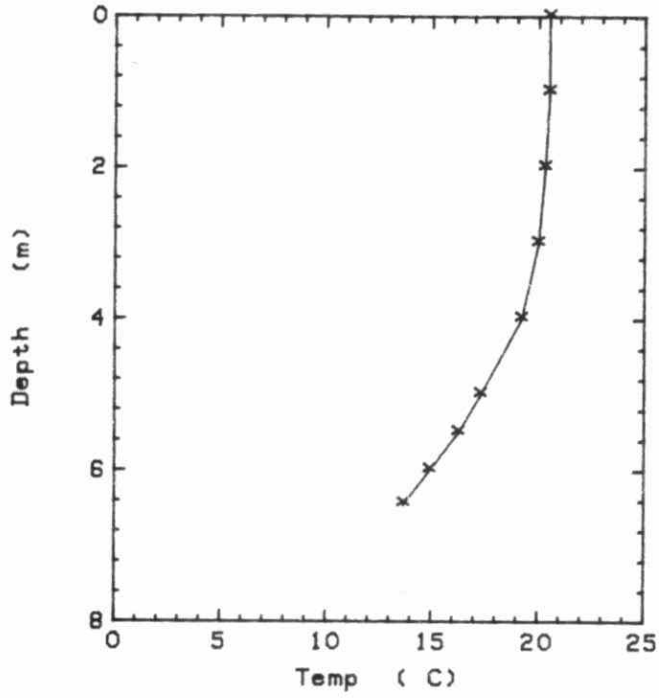
# HEALEY 79.02.06

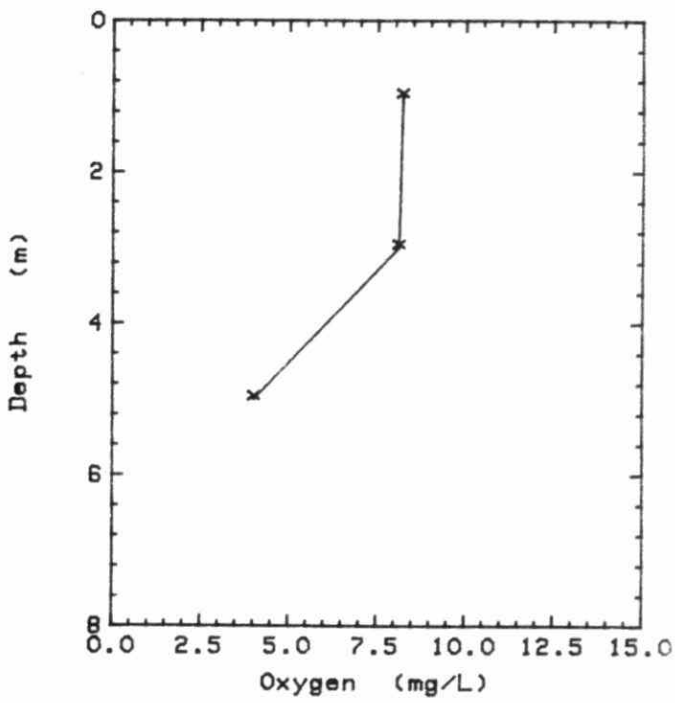


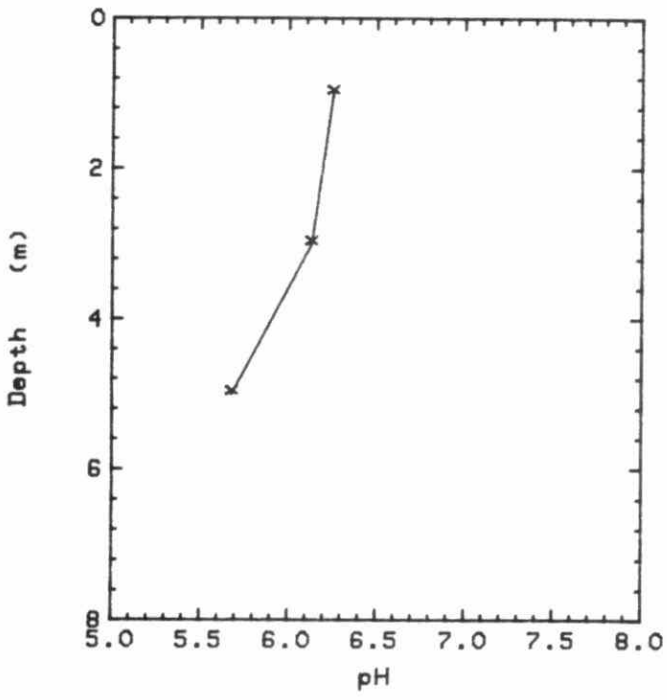
HEALEY 79.05.31



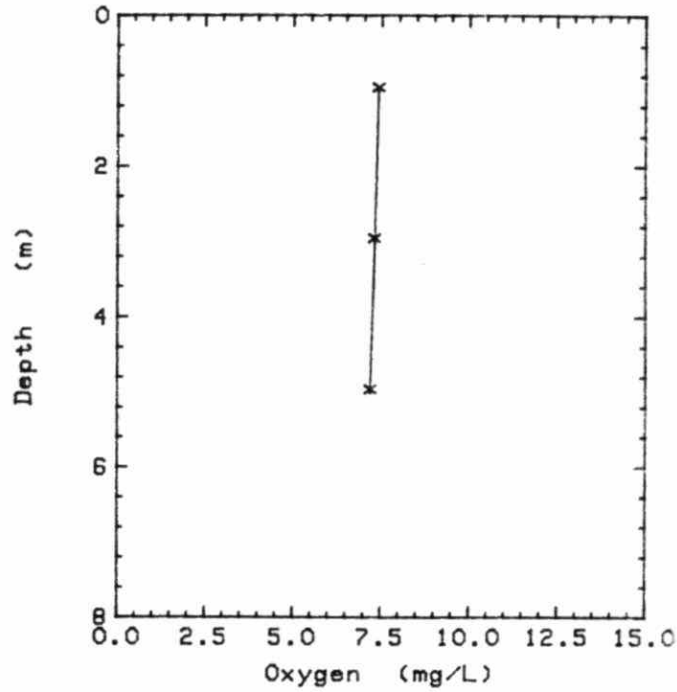
# HEALEY 79.07.03

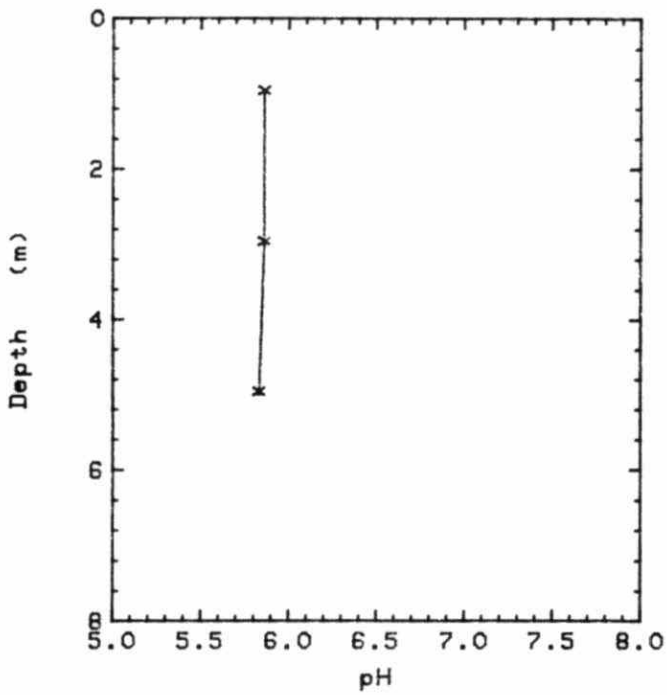


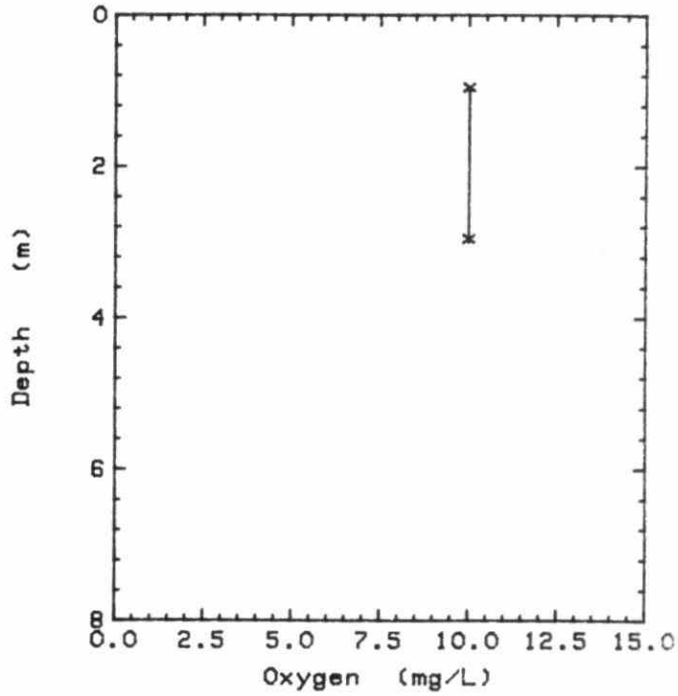



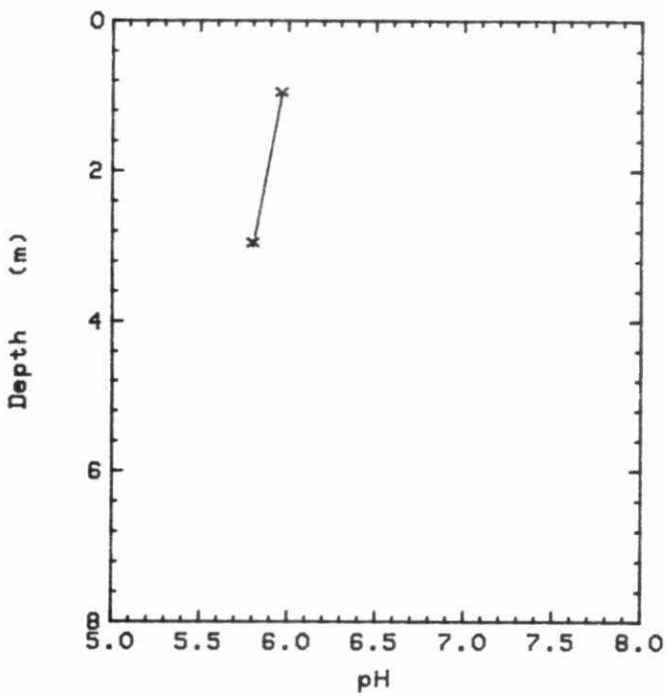
# HEALEY 79.08.14



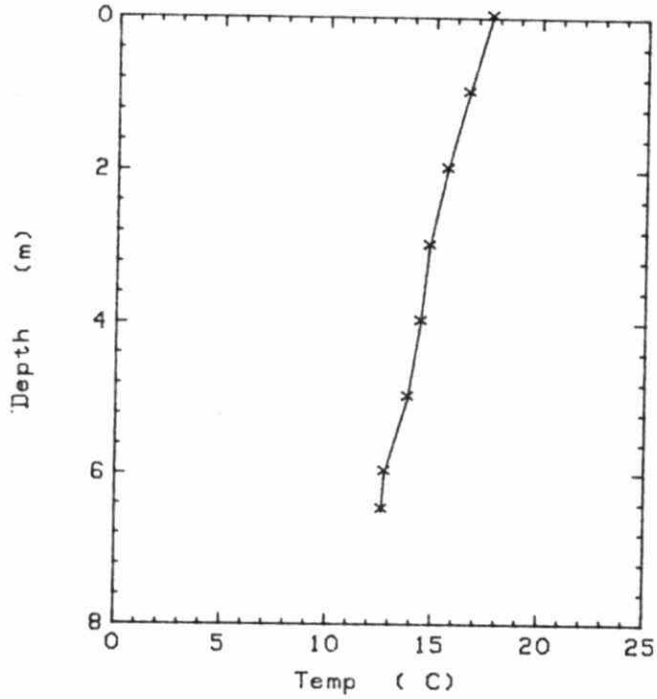



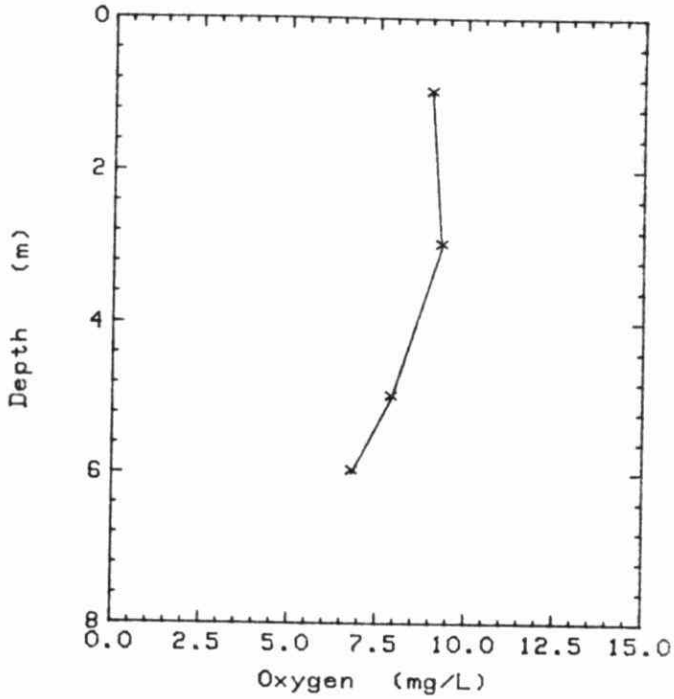
# HEALEY 79.10.16

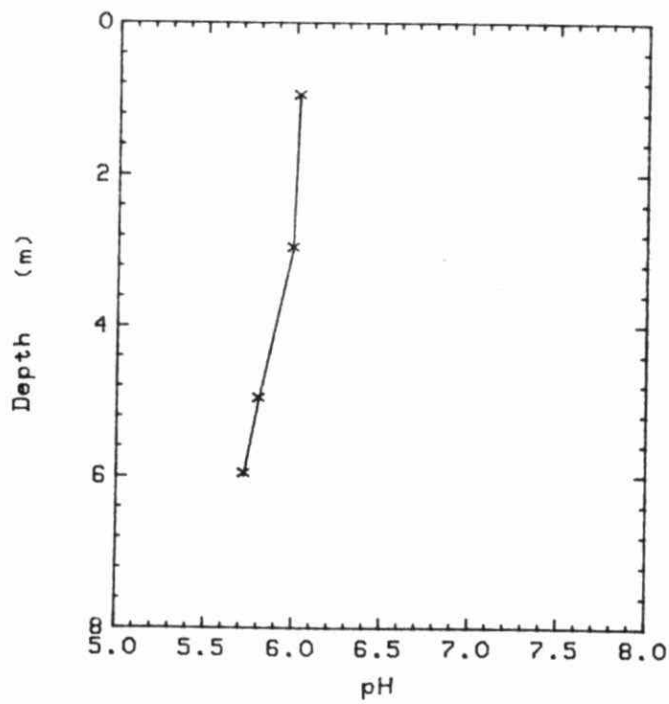


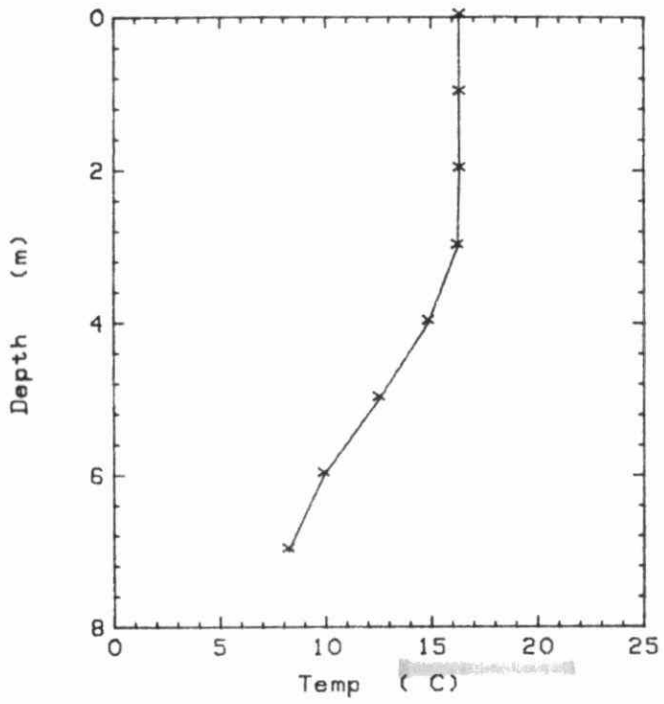
# HEALEY 80.05.21

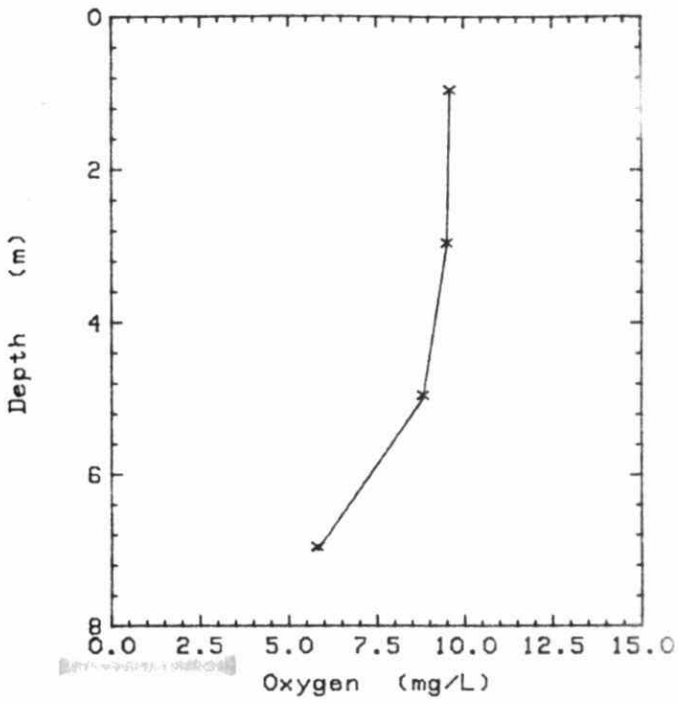


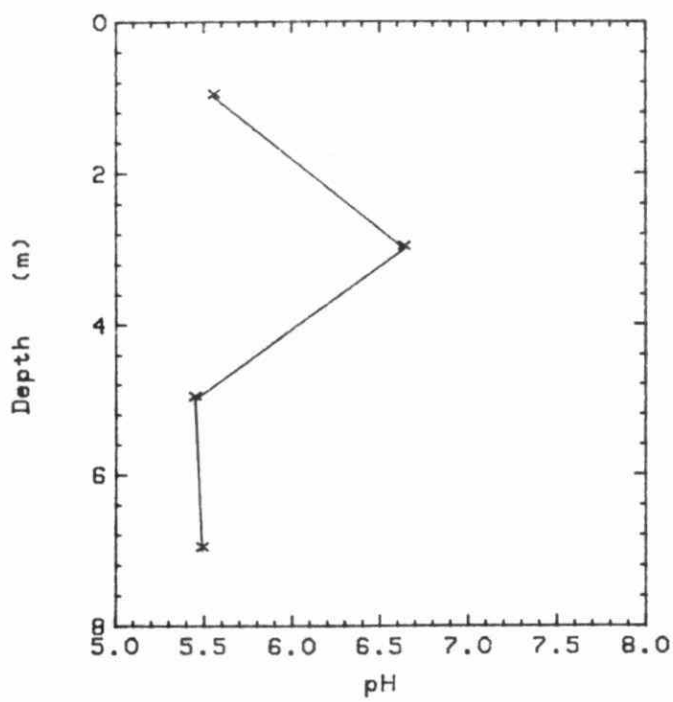



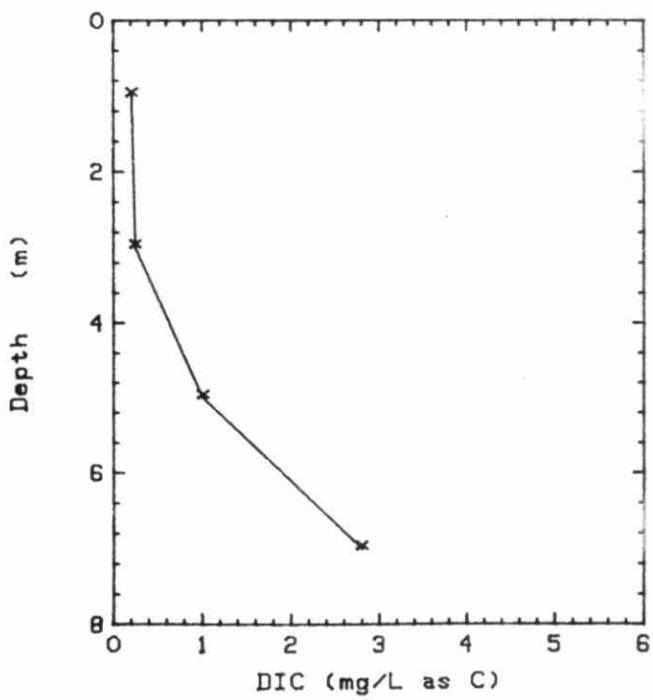



# HEALEY 80.06.18

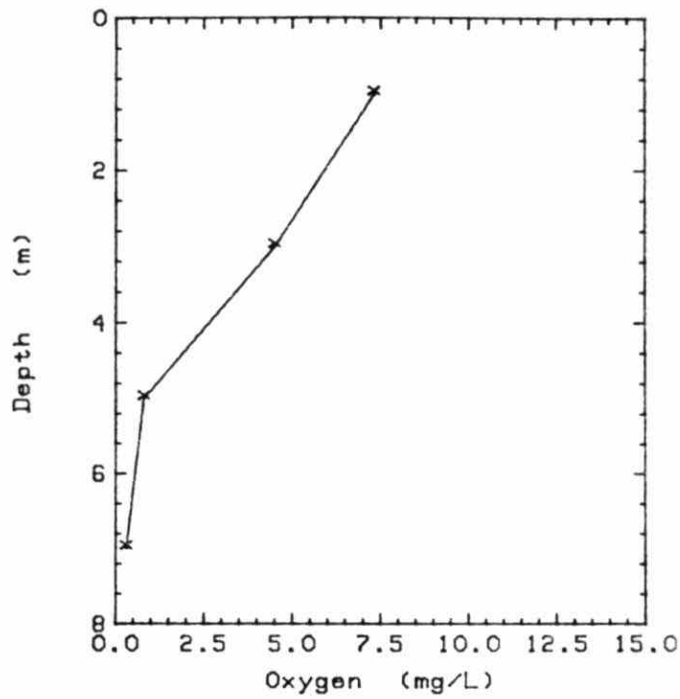


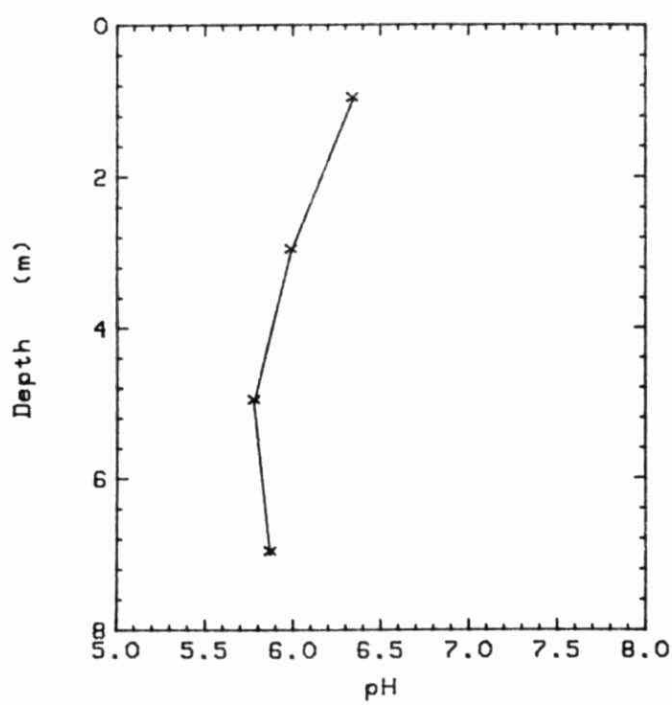



# HEALEY 80.07.15



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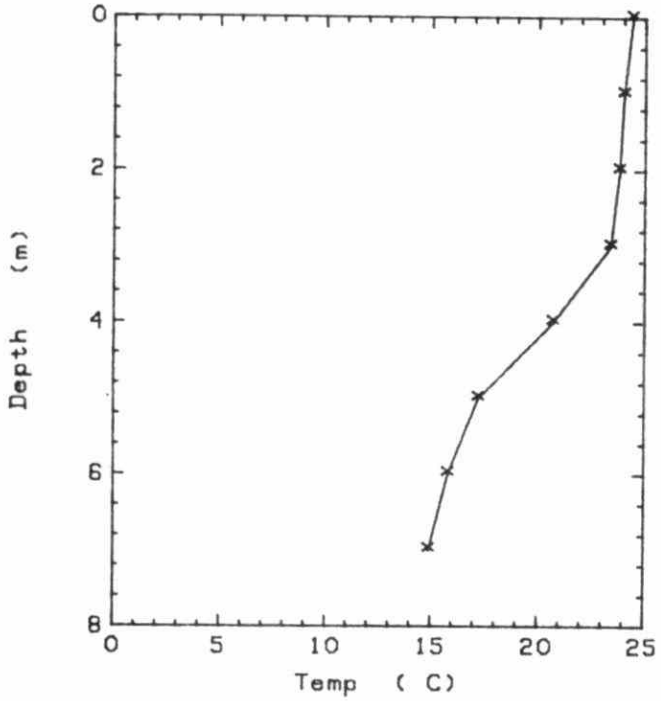


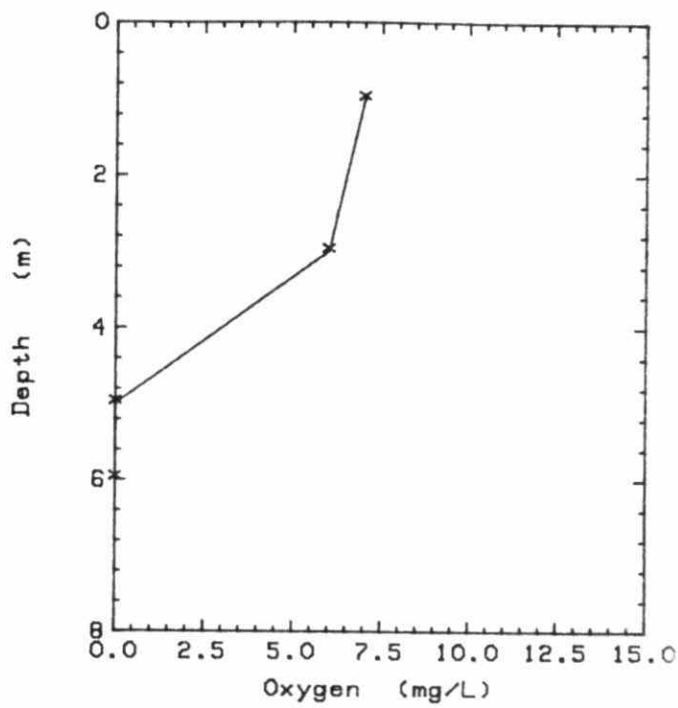


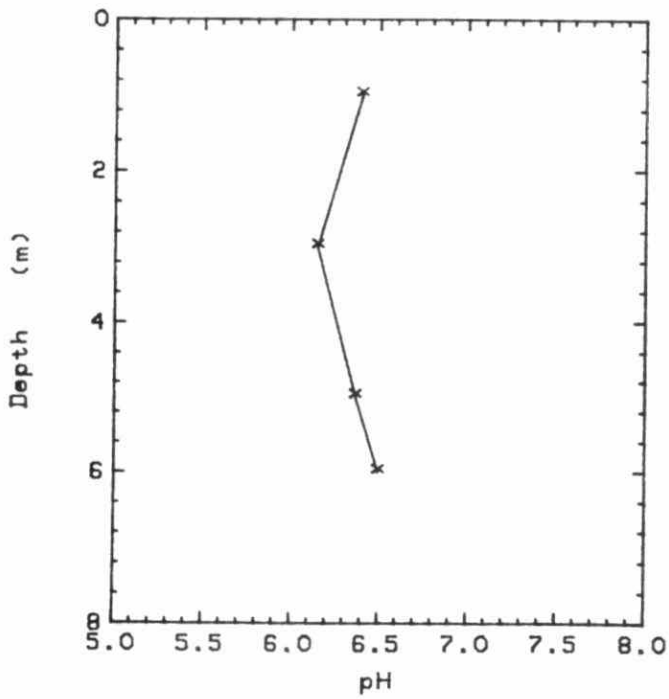

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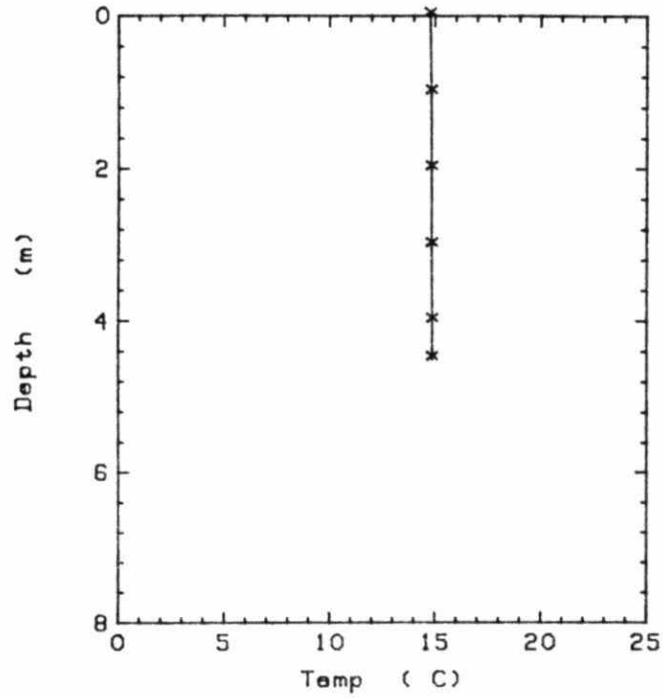


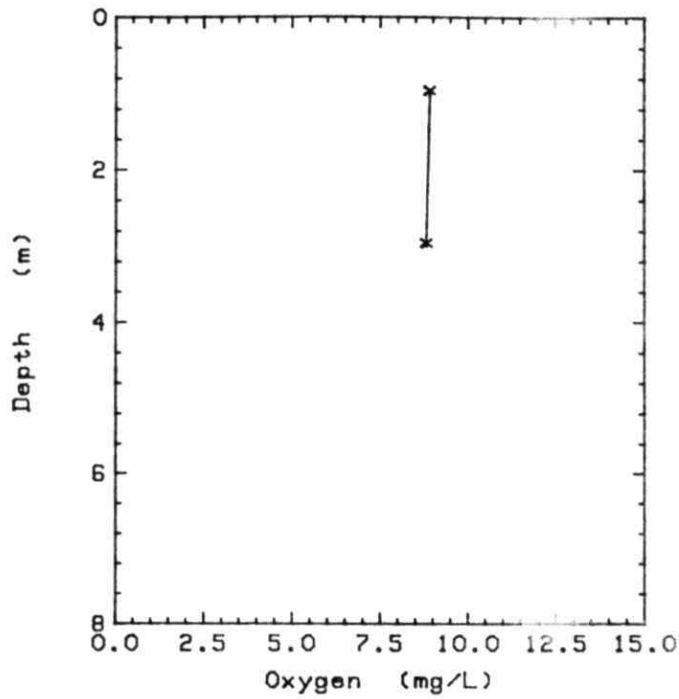


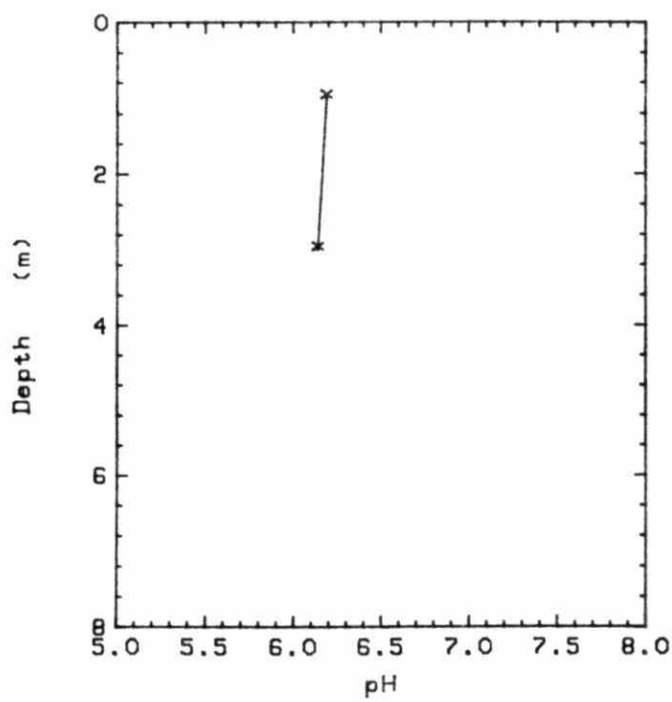

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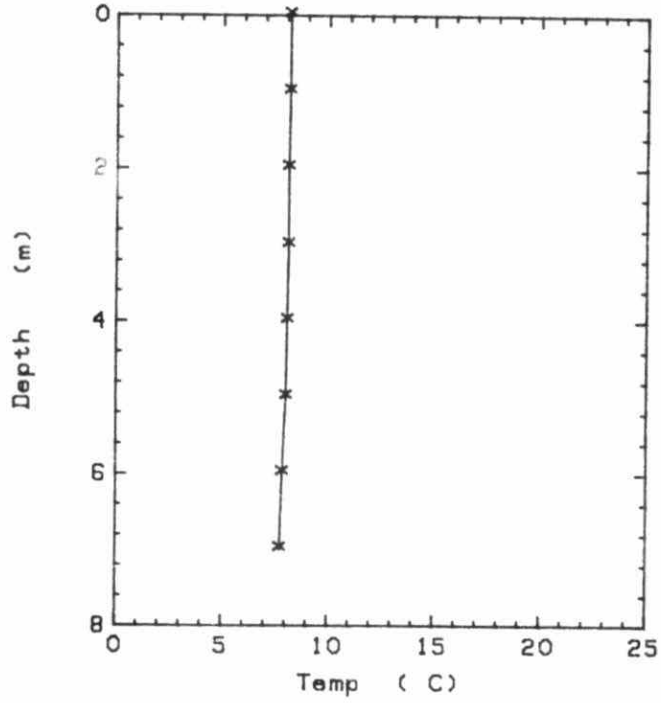
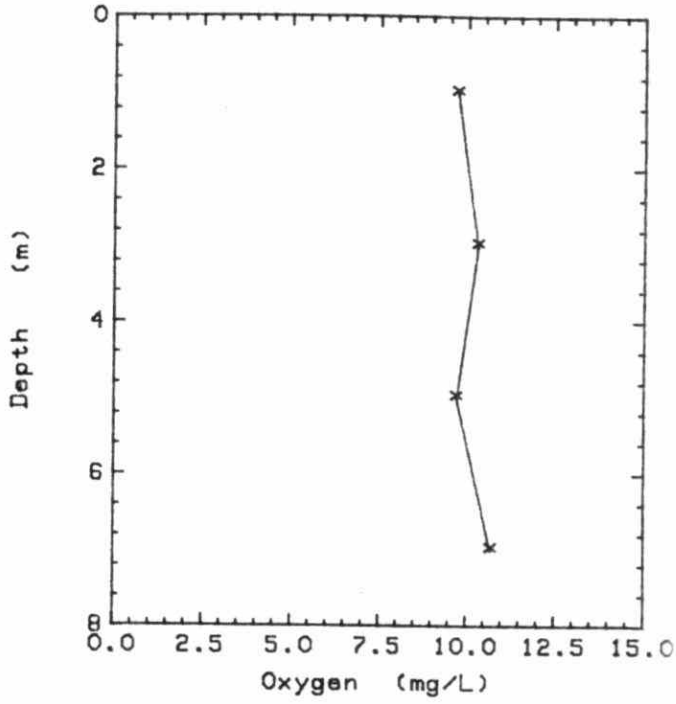
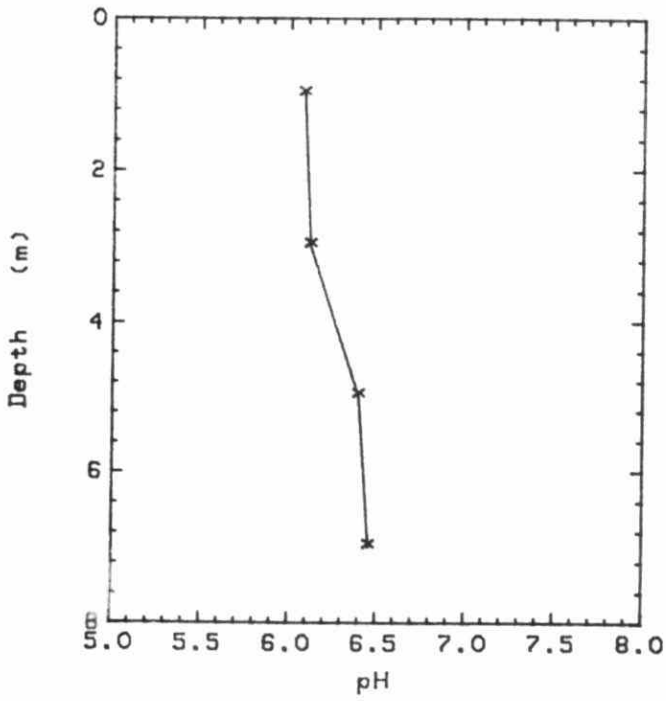
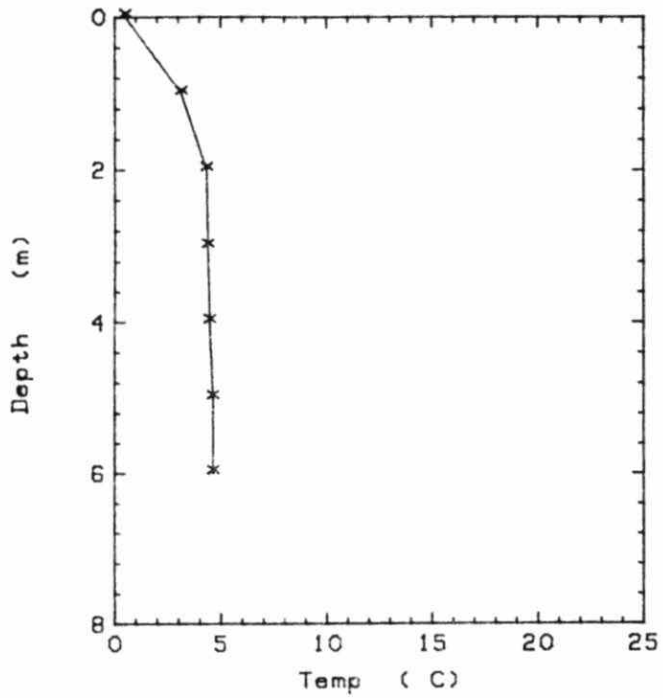
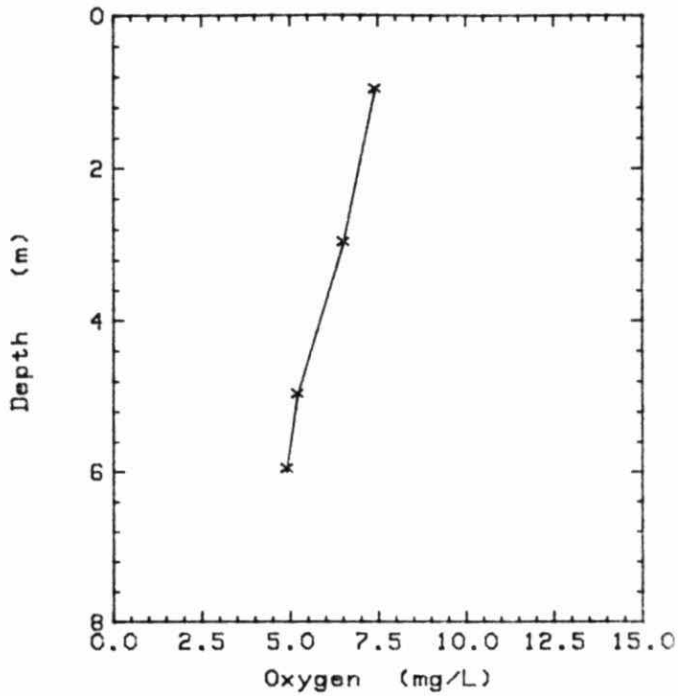


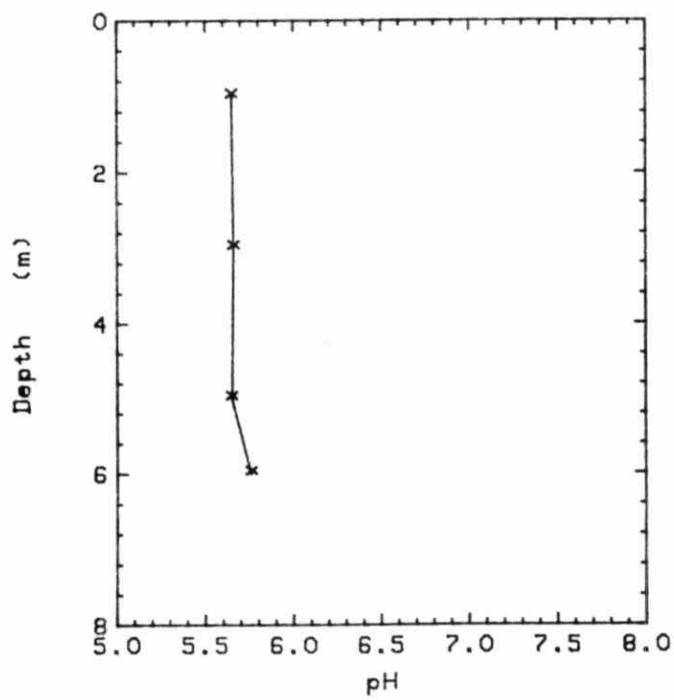



# HEALEY 81.01.29



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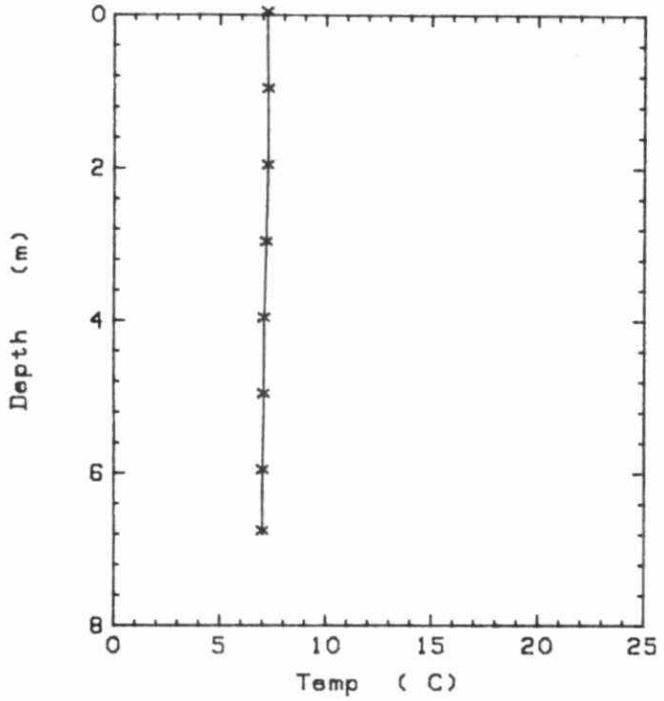
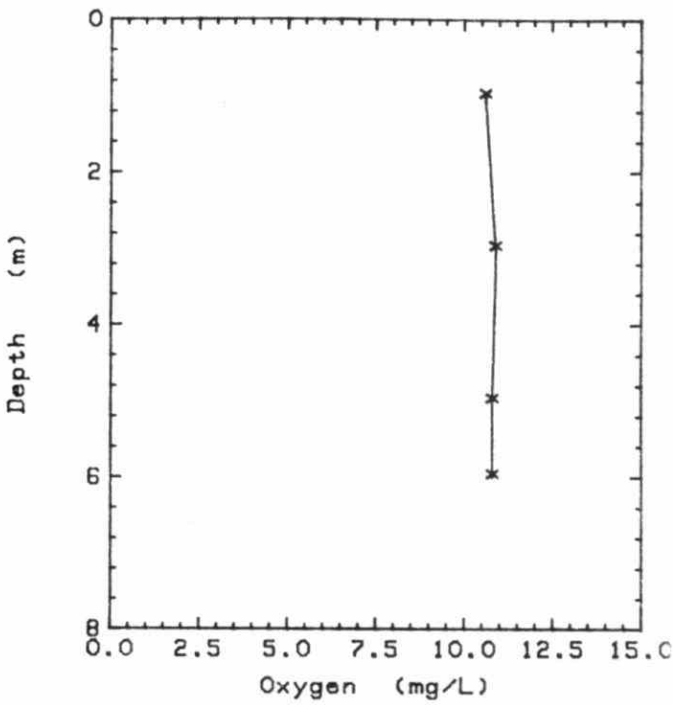
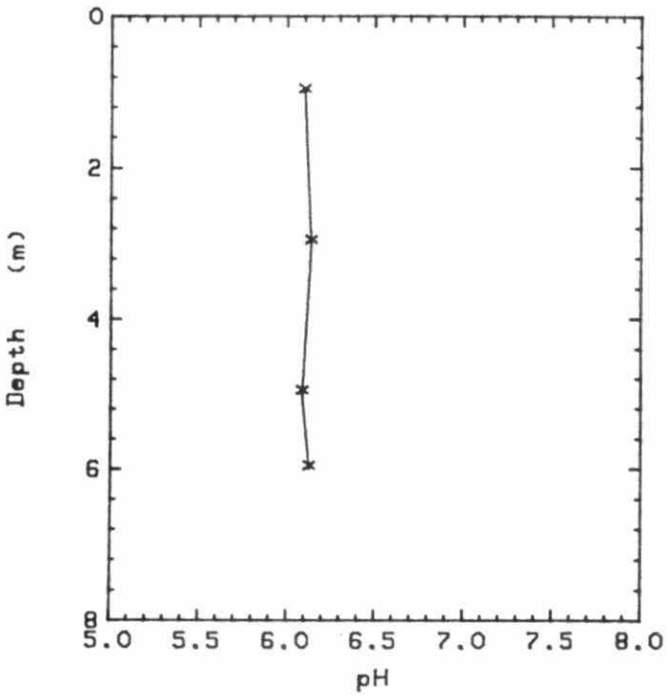
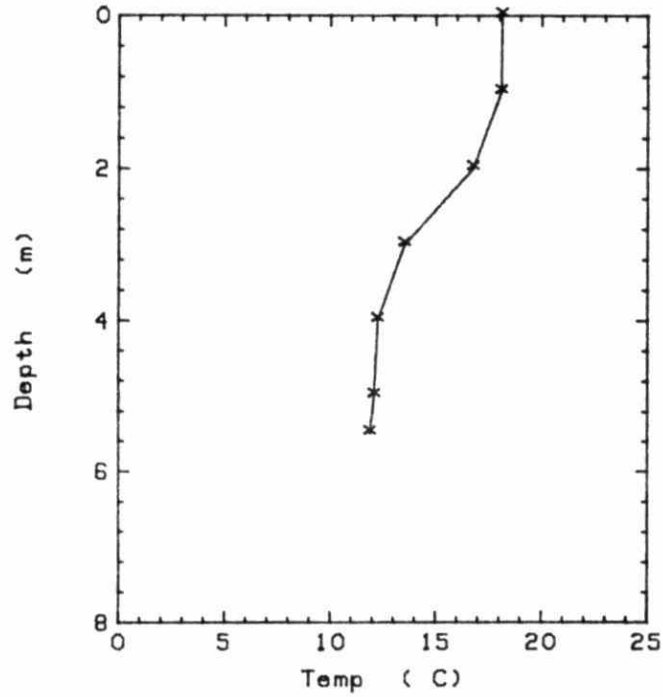
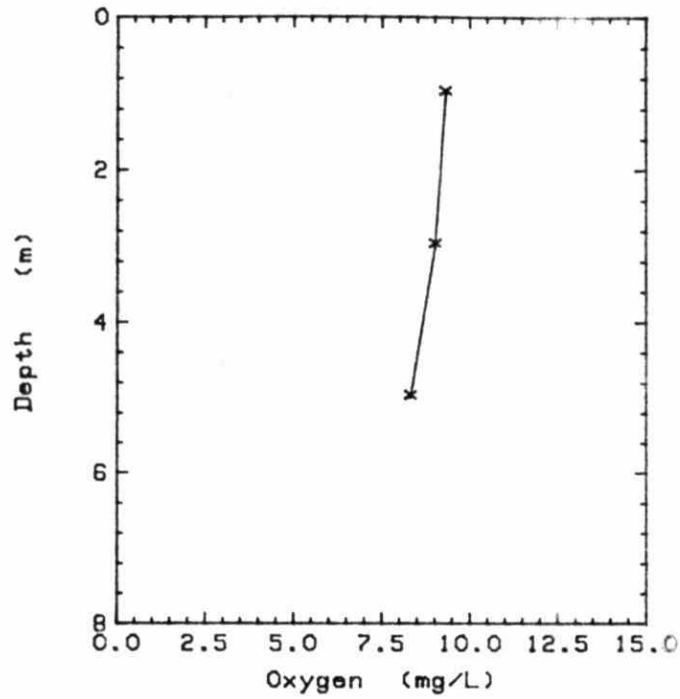


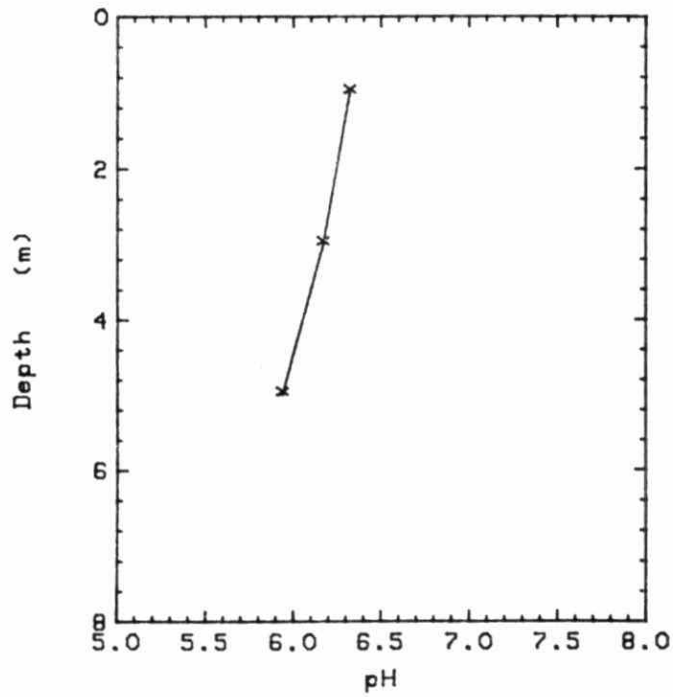



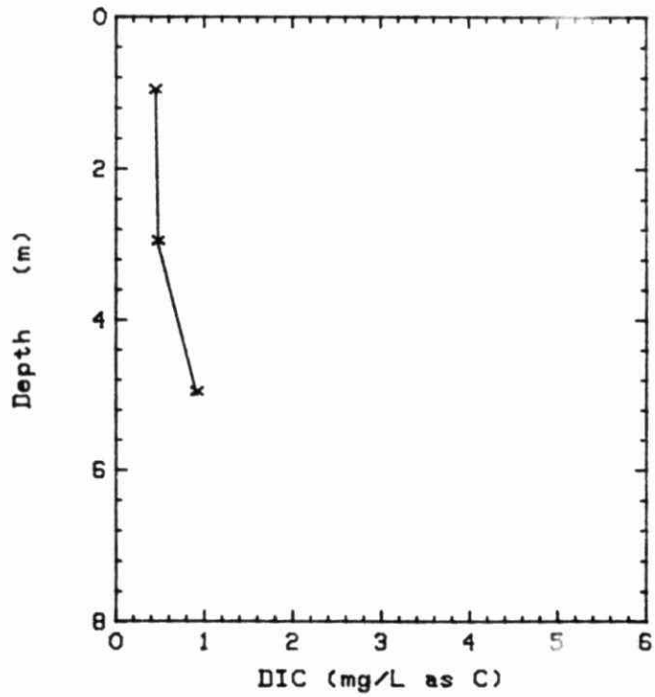



# HEALEY 81.05.27

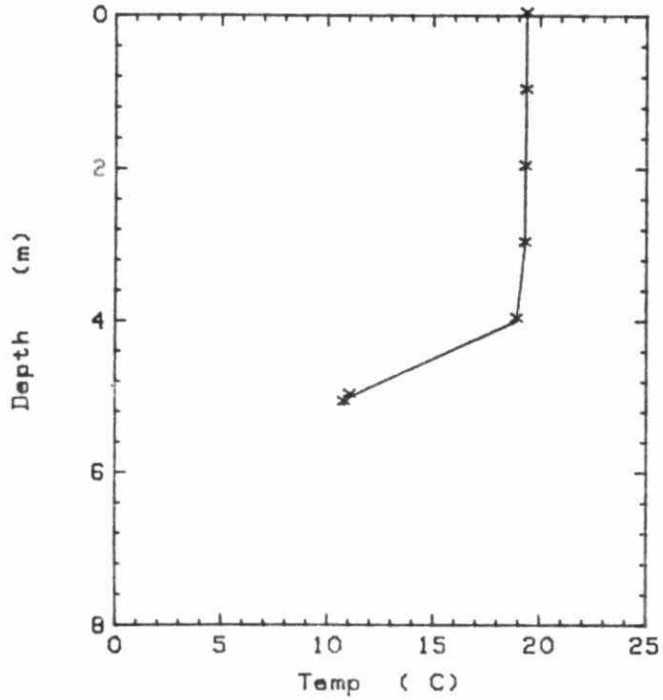


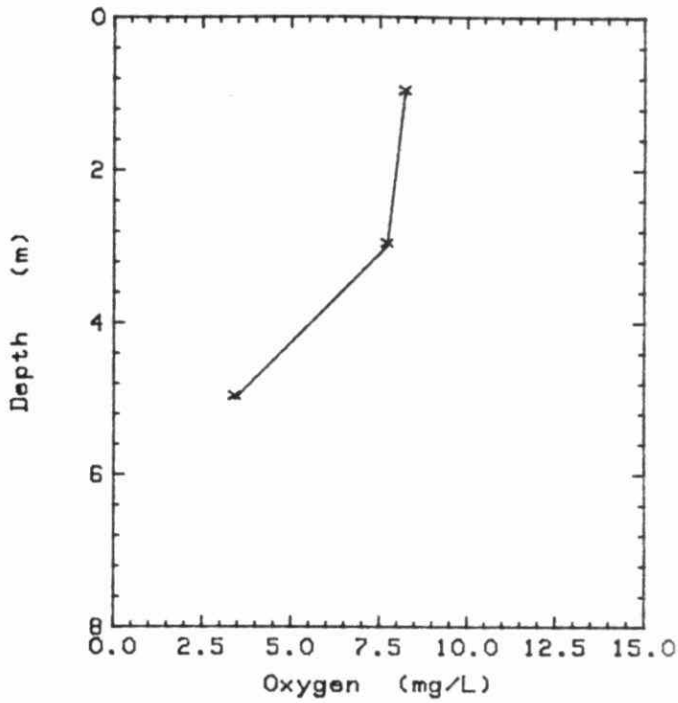



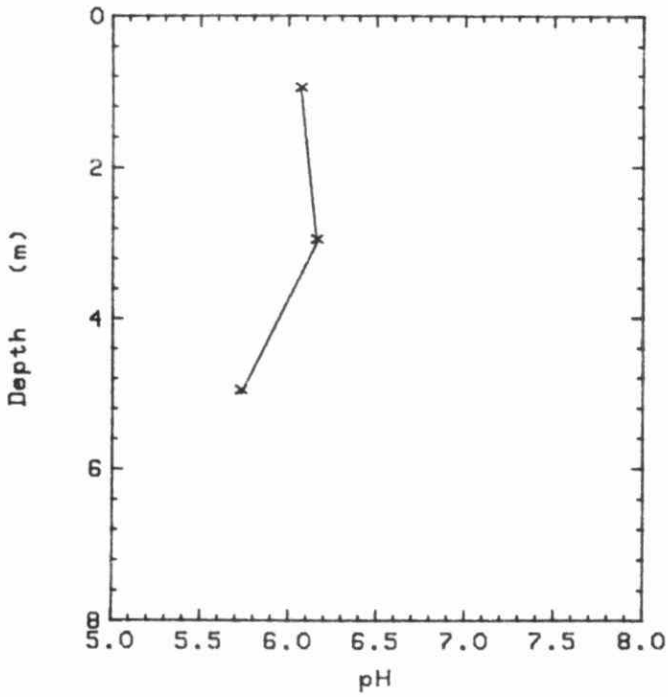



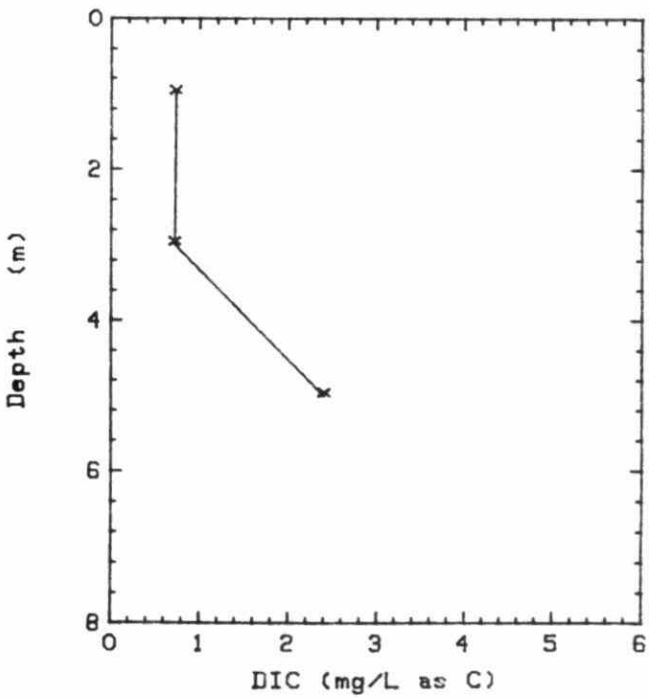



# HEALEY 81.06.25

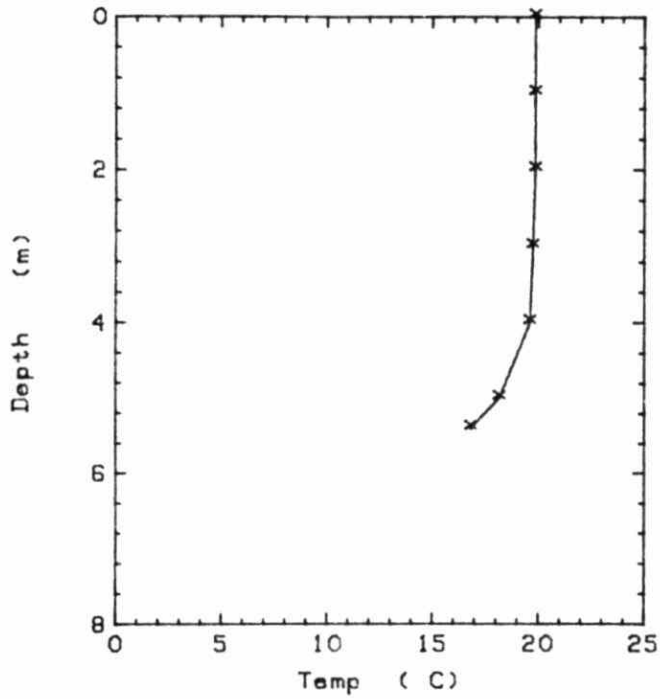


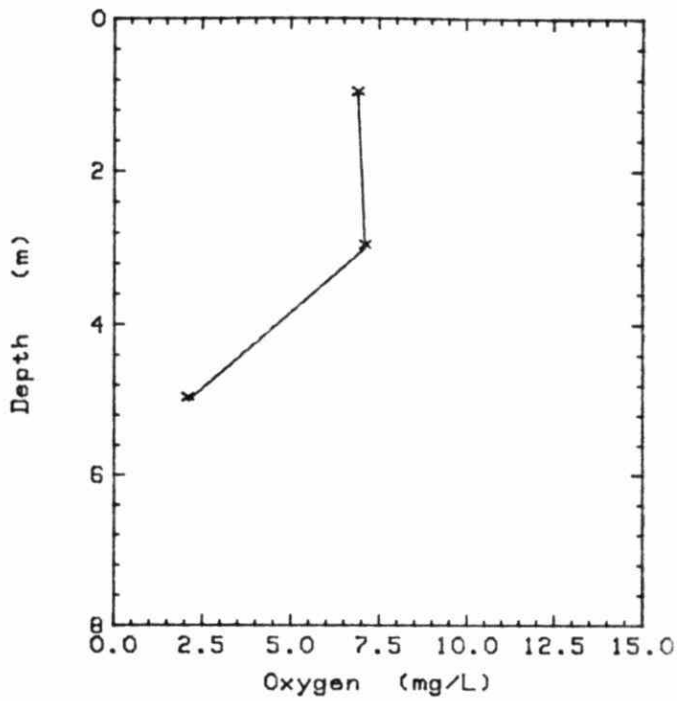



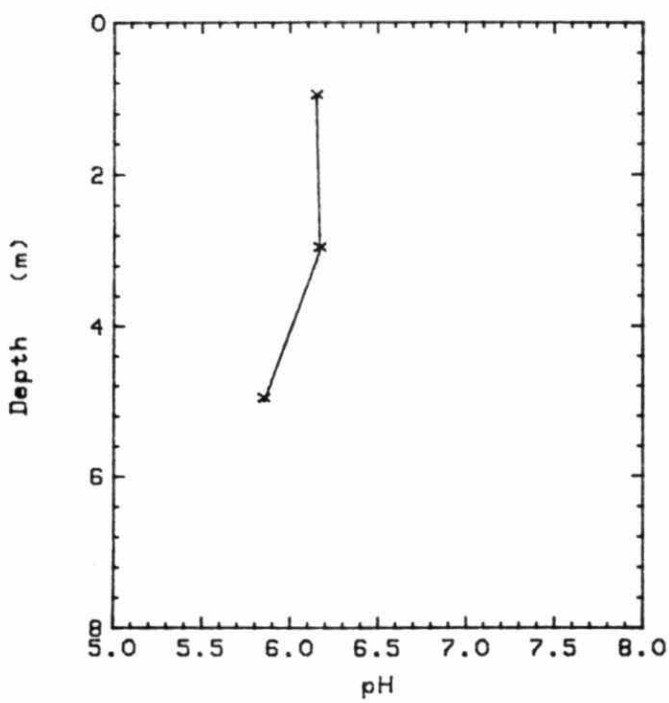



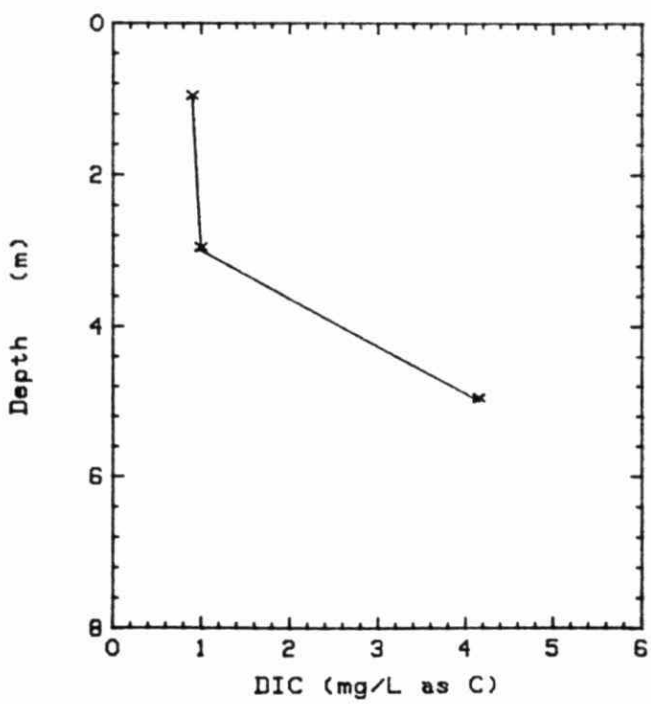



# HEALEY 81.07.29

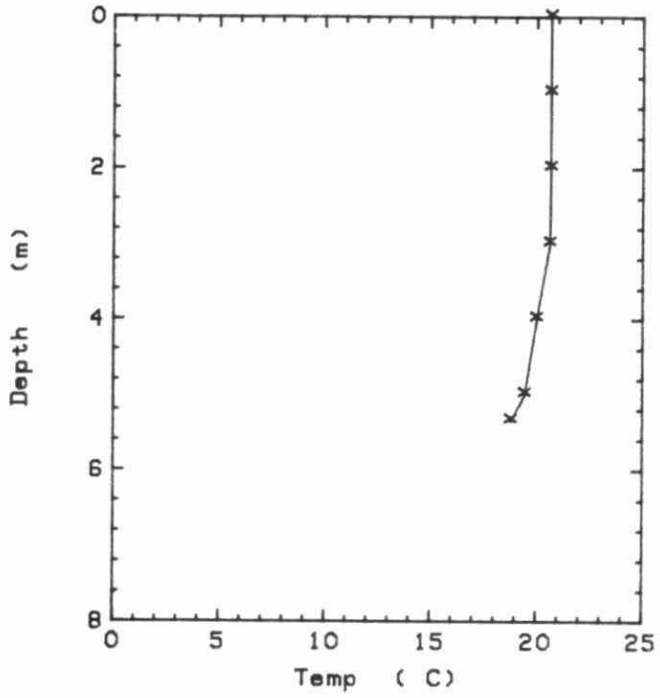


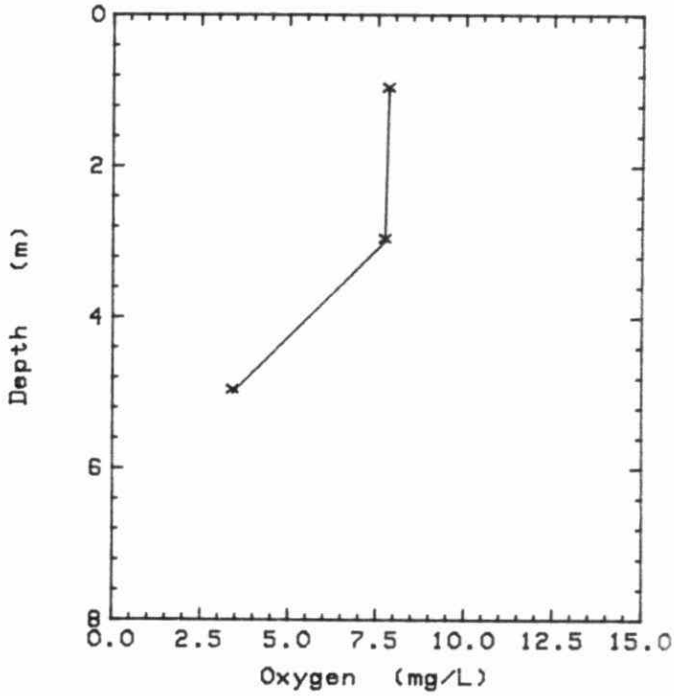



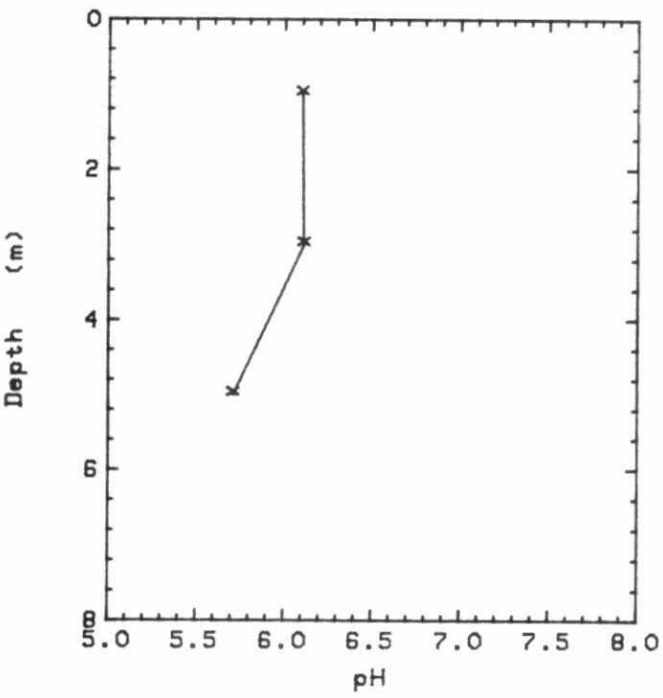



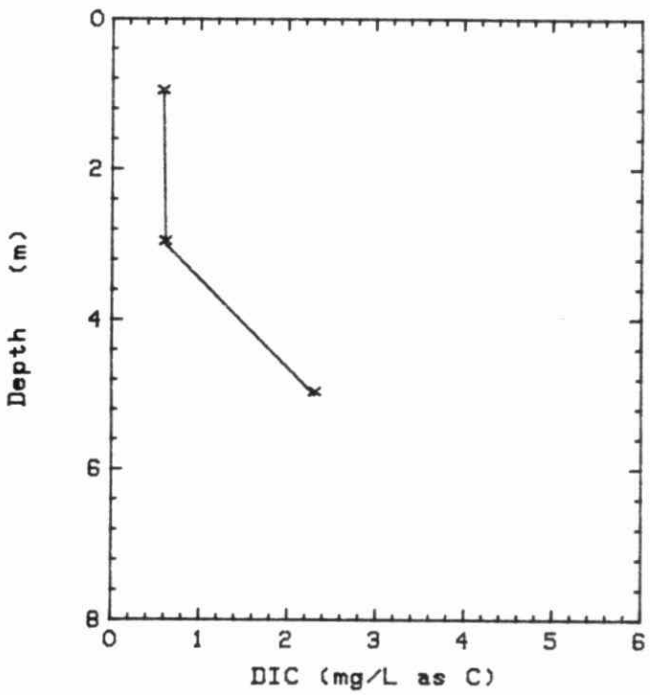



# HEALEY 81.09.03

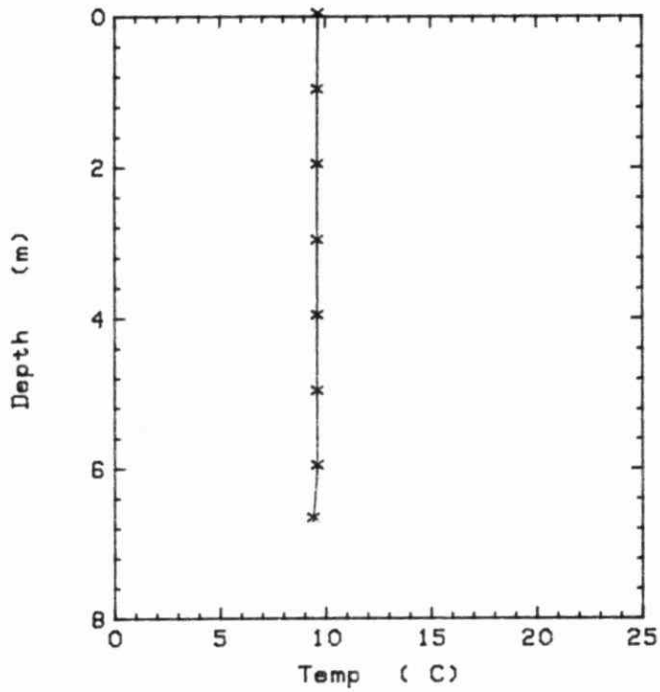


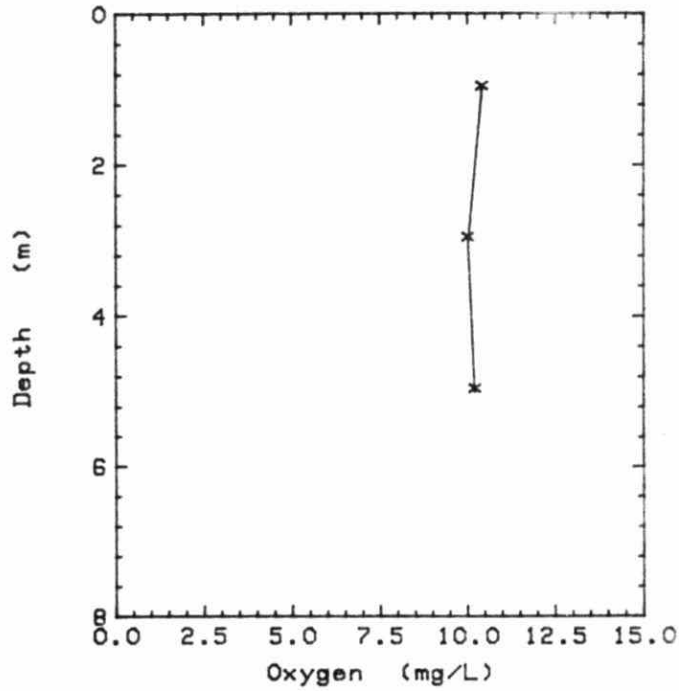



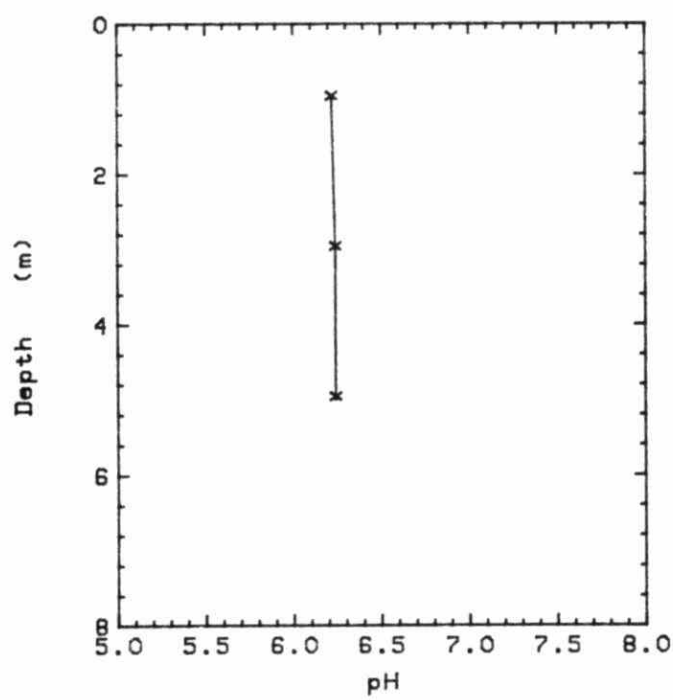



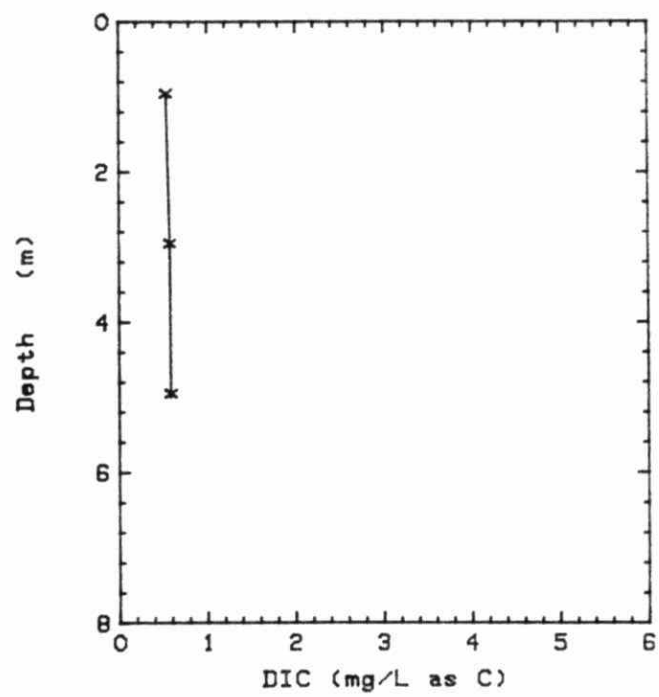



# HEALEY 81.10.06

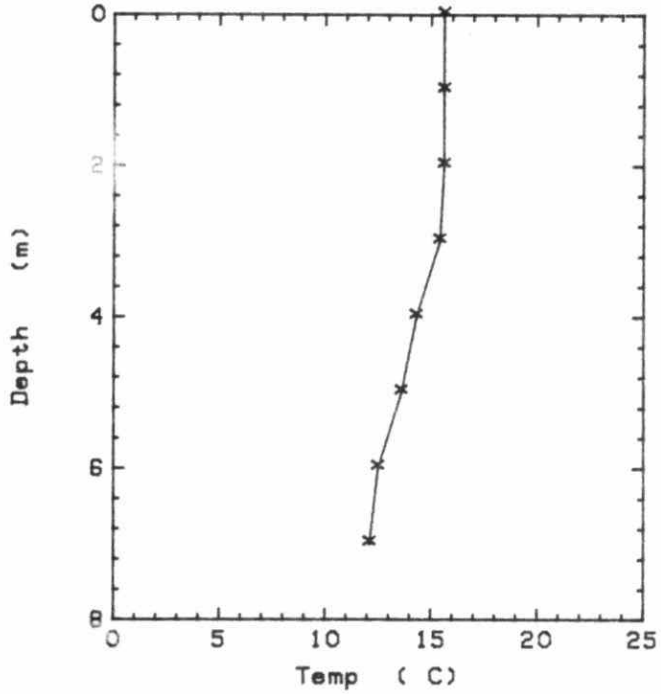


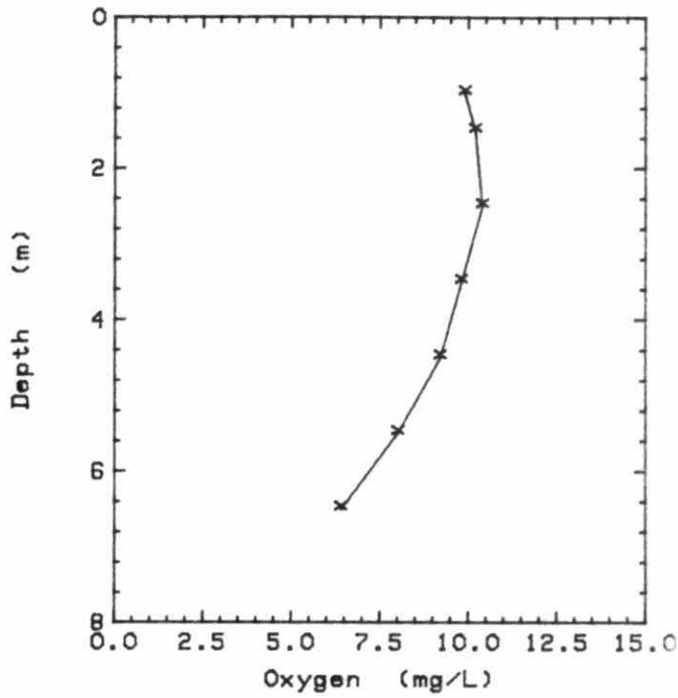



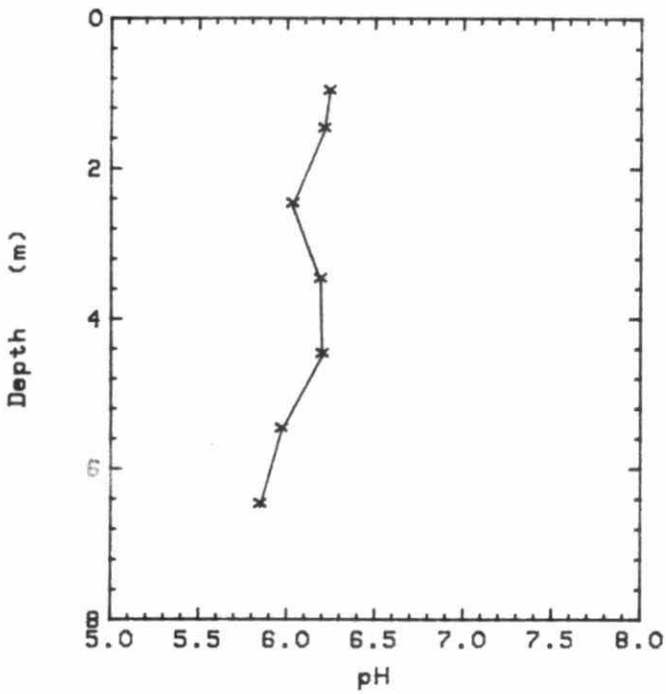



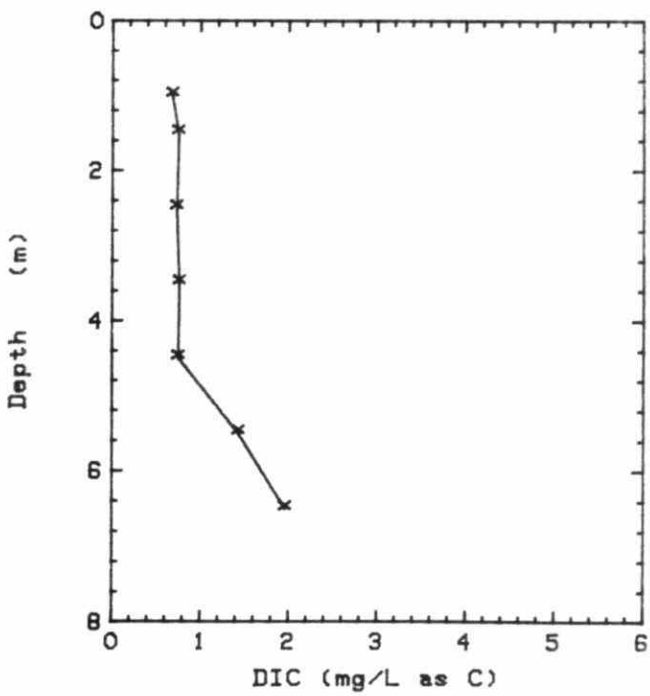



# HEALEY 83.06.07

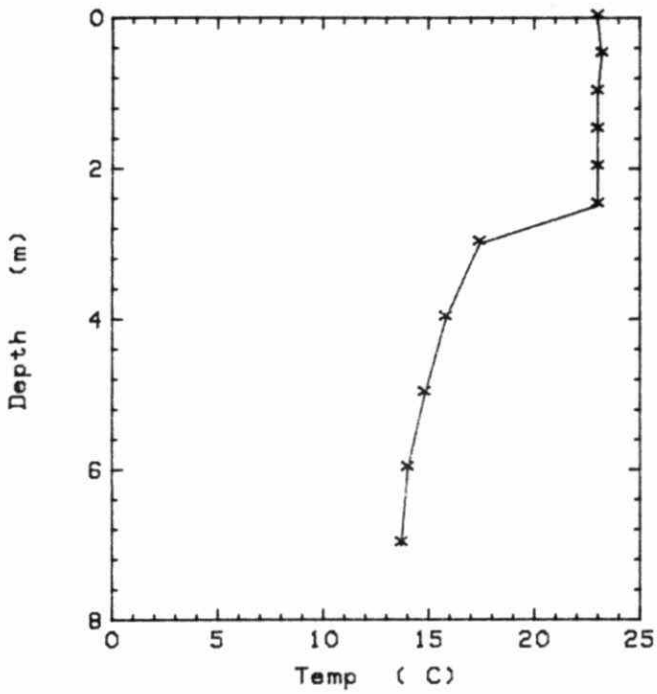


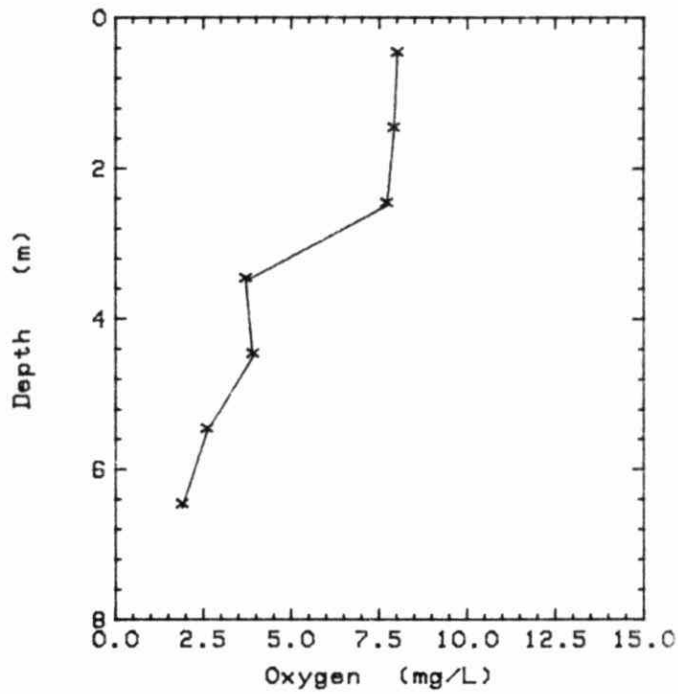



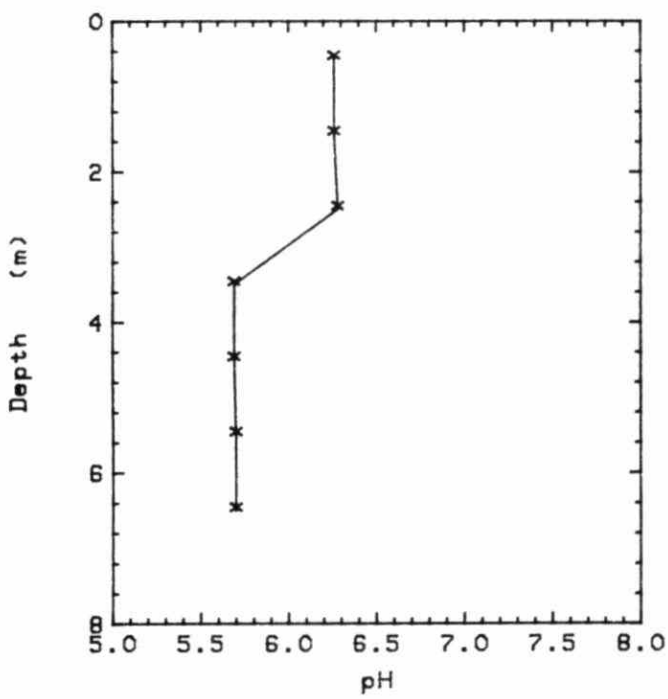



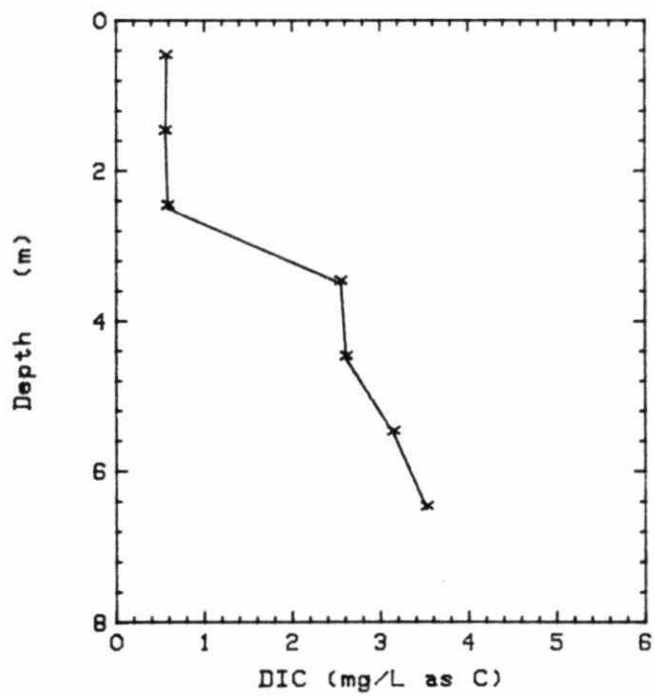



# HEALEY 83.06.27

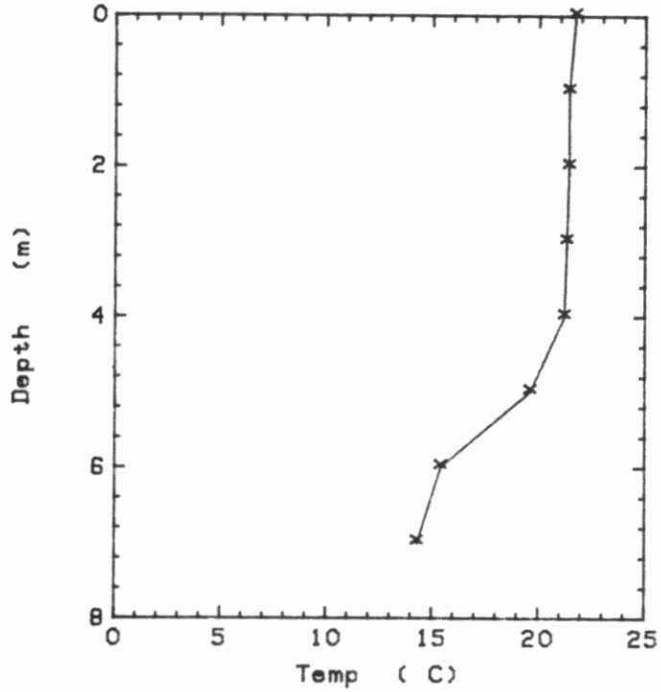


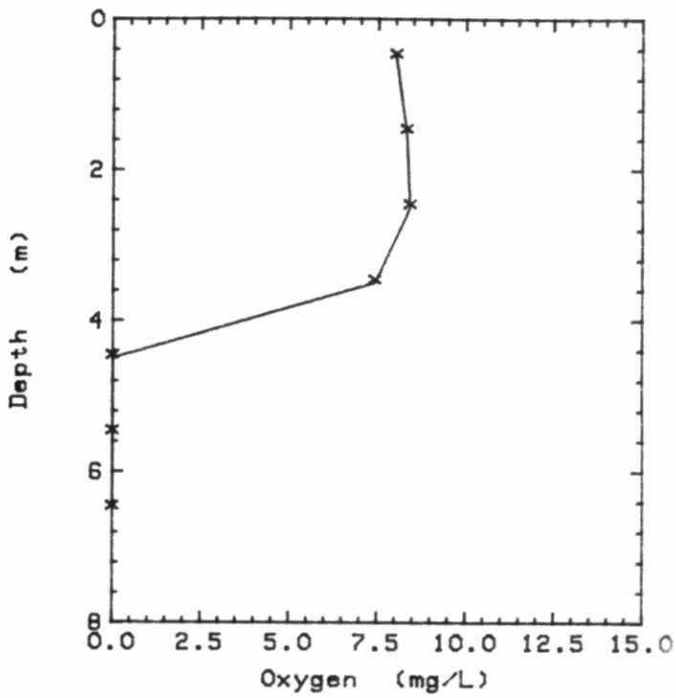



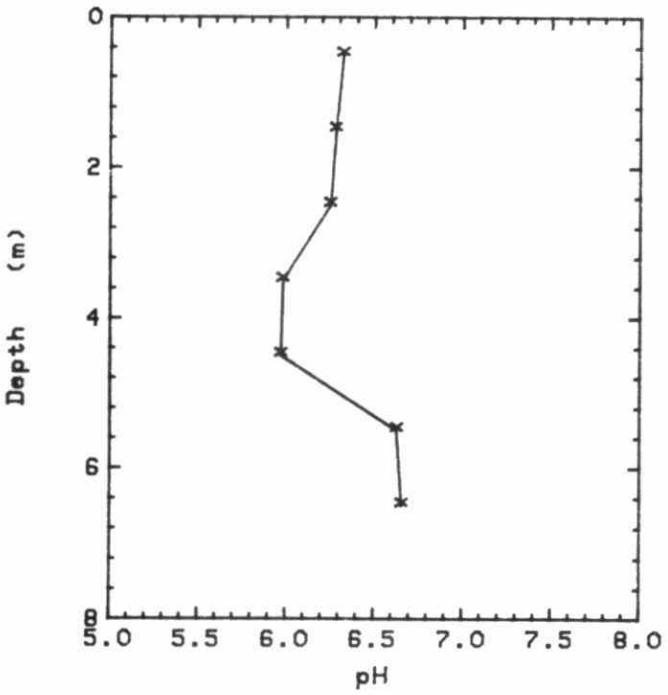



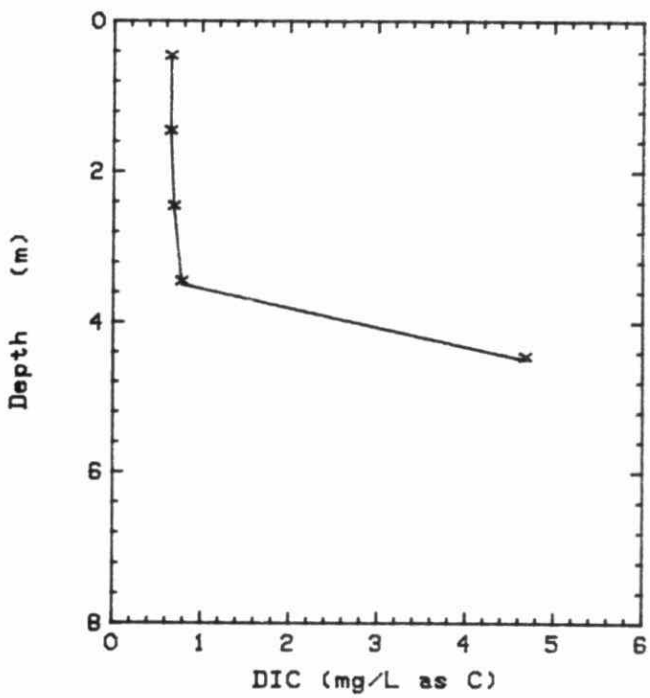



# HEALEY 83.08.23

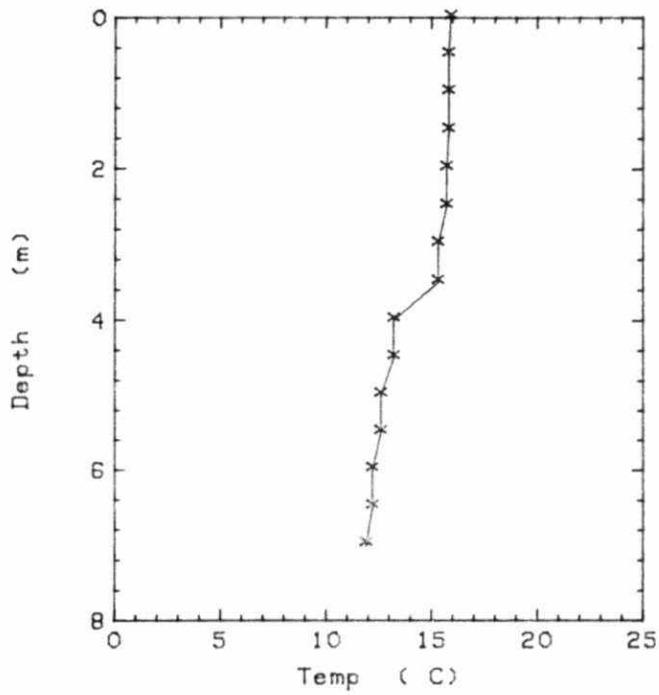


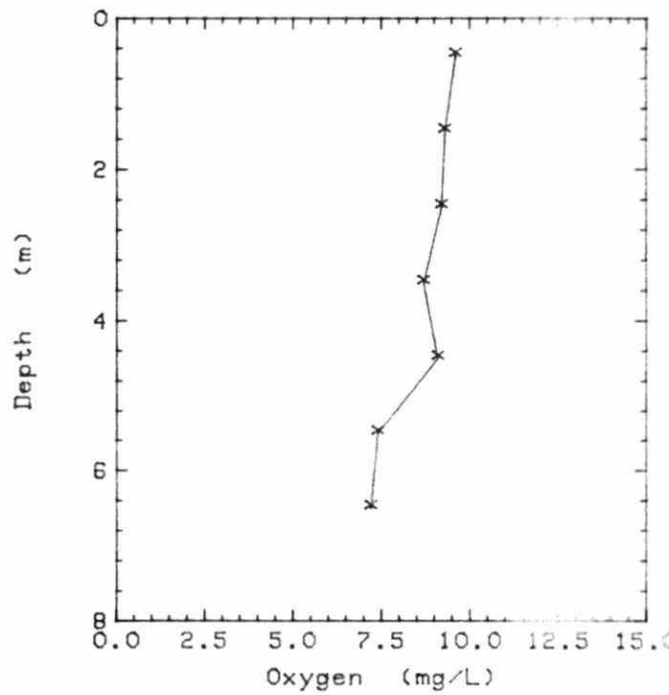



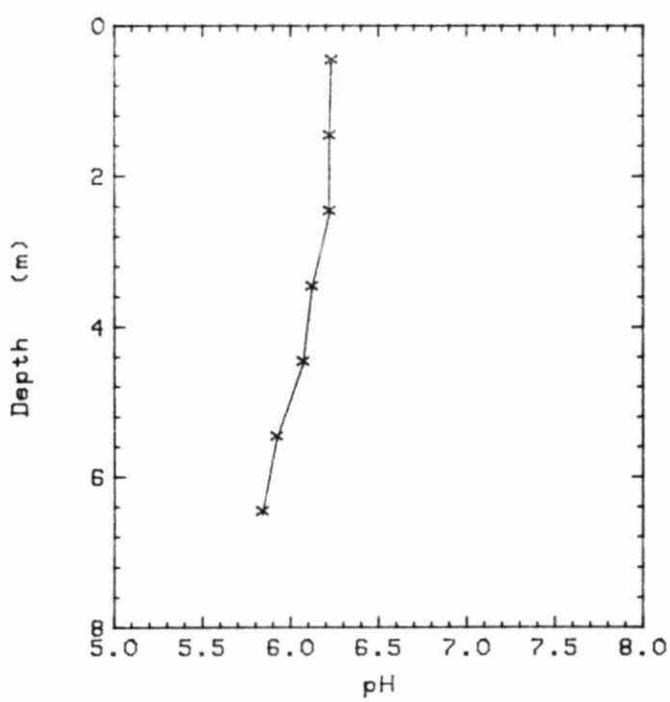



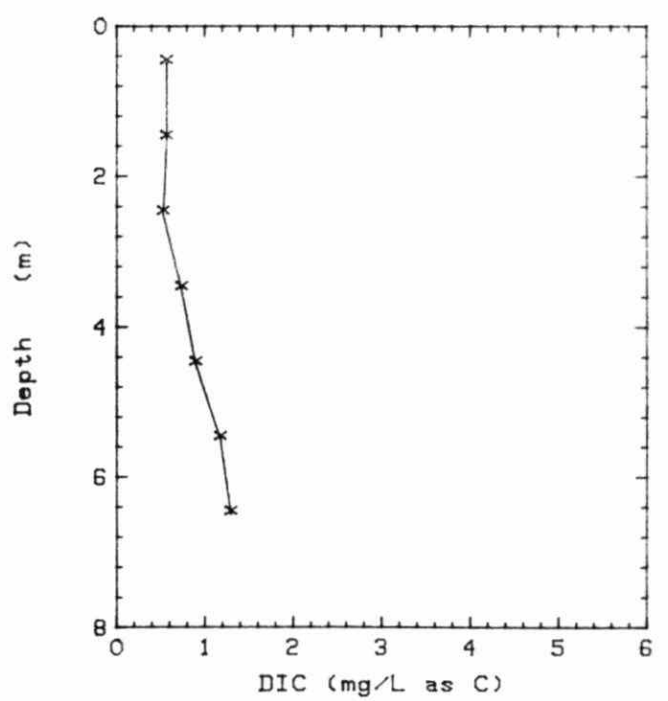



# HEALEY 84.05.24

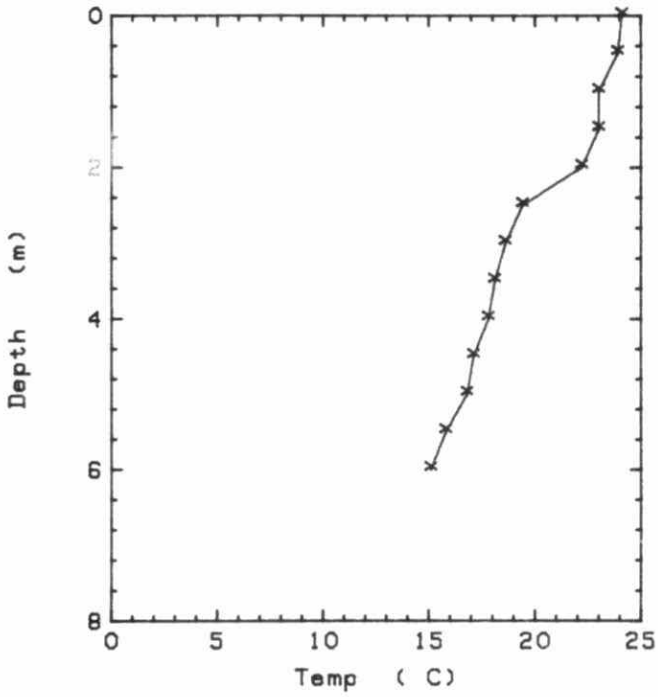


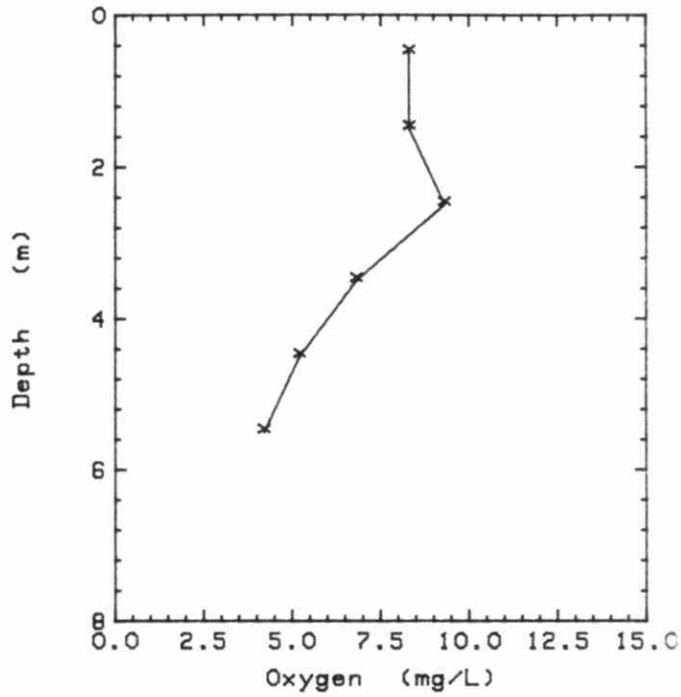



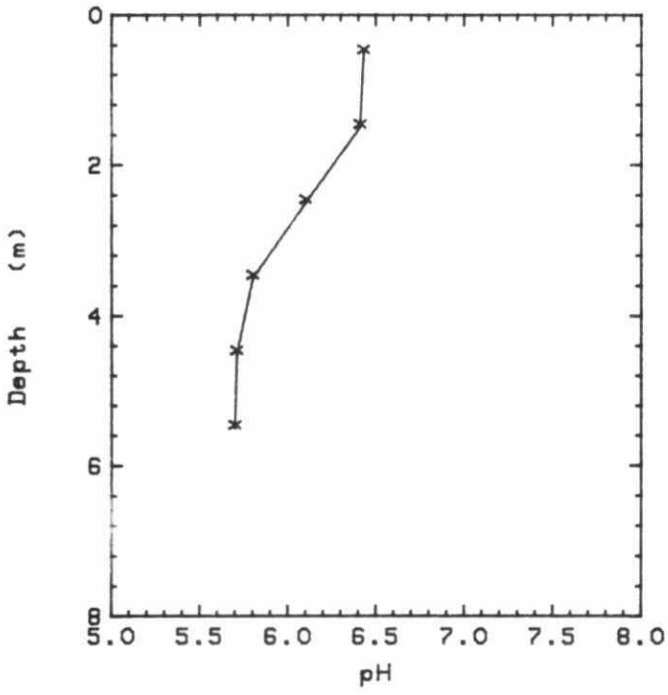



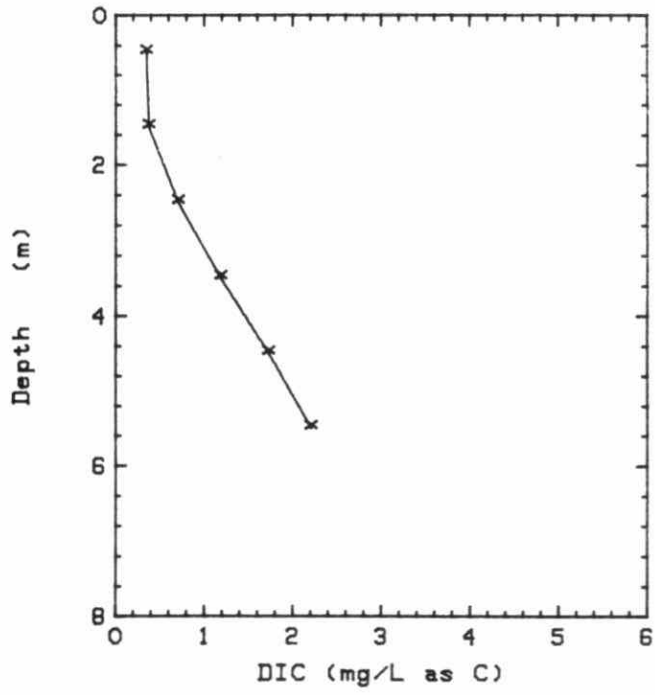



# HEALEY 84.07.05



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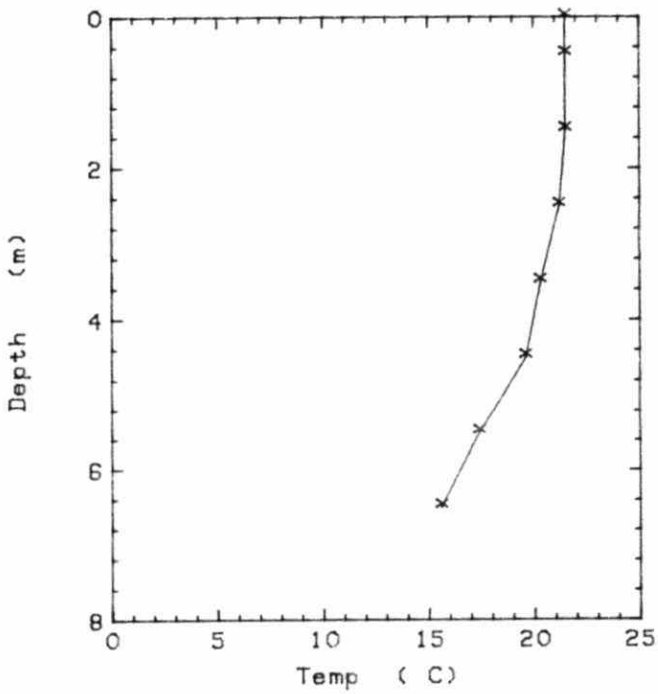


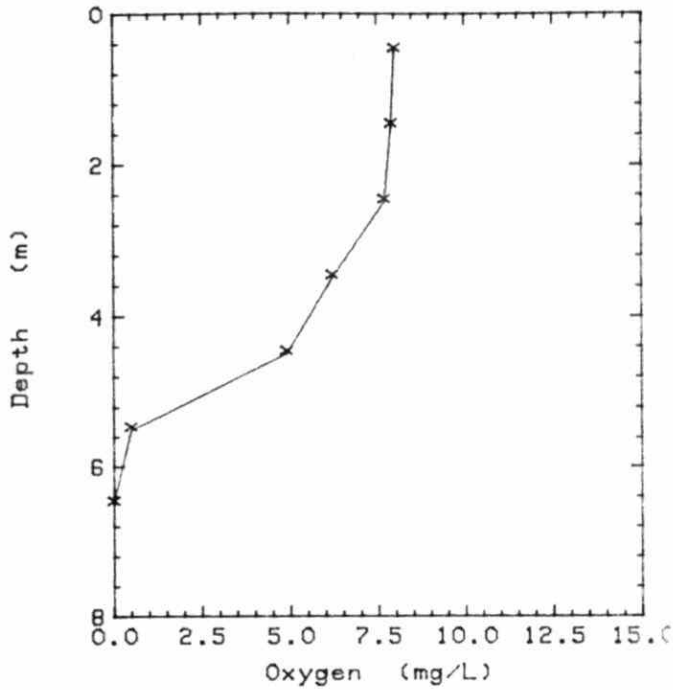


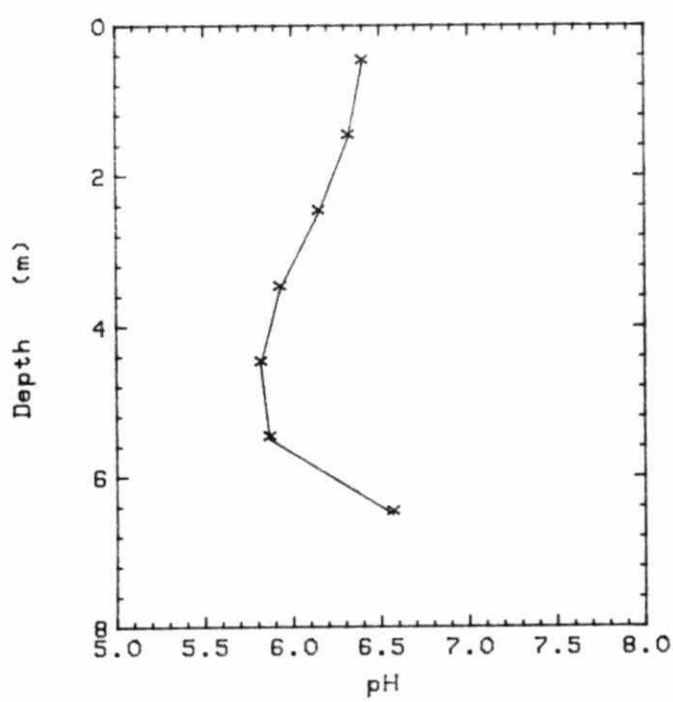


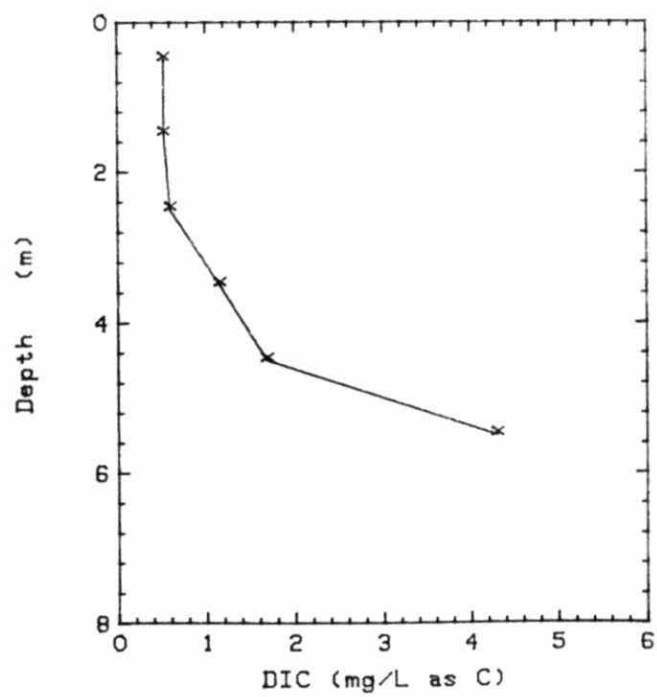

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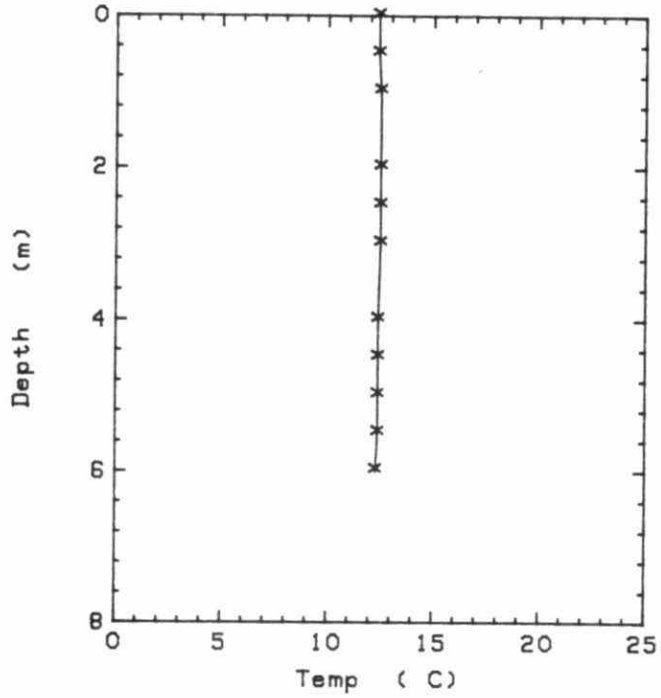
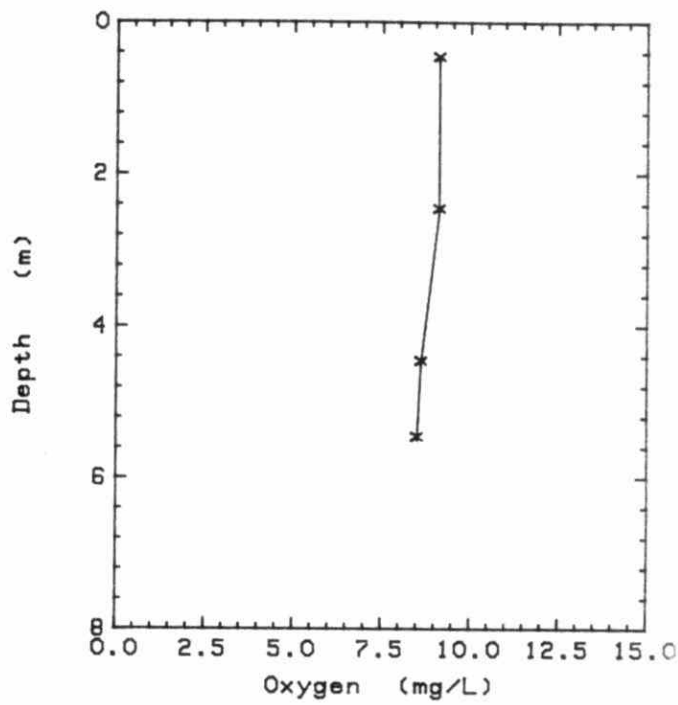
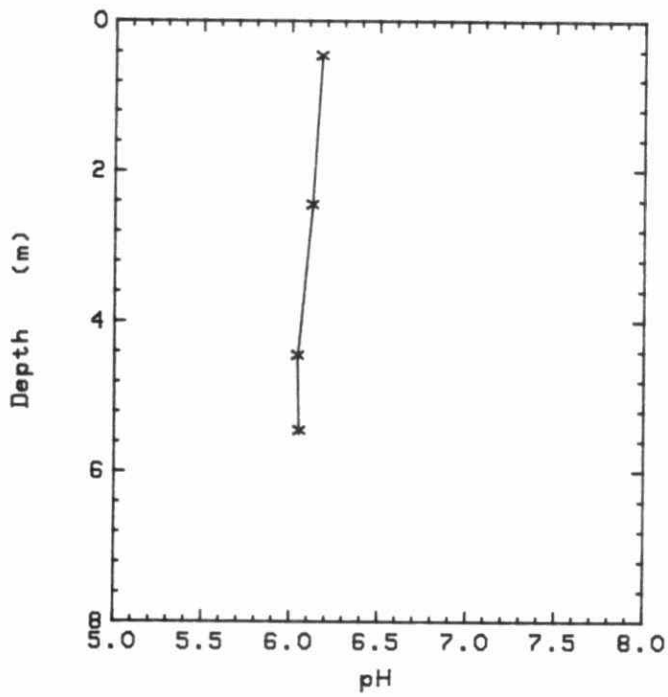
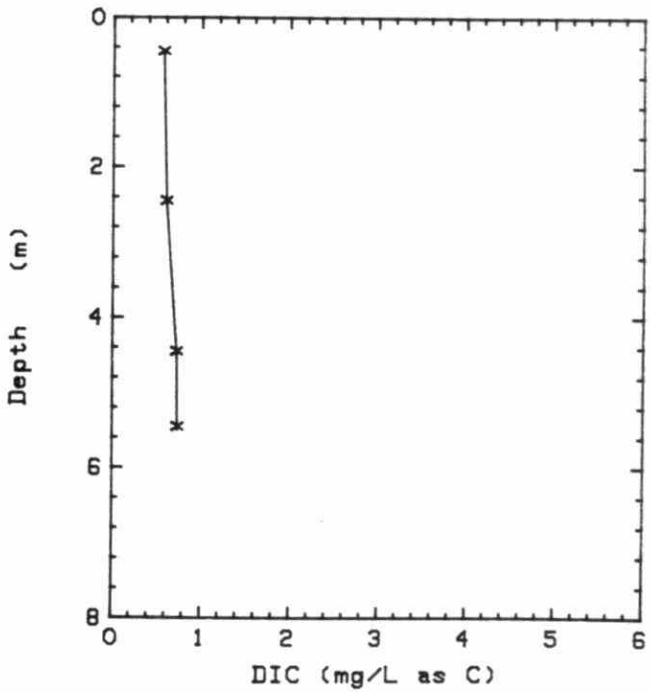
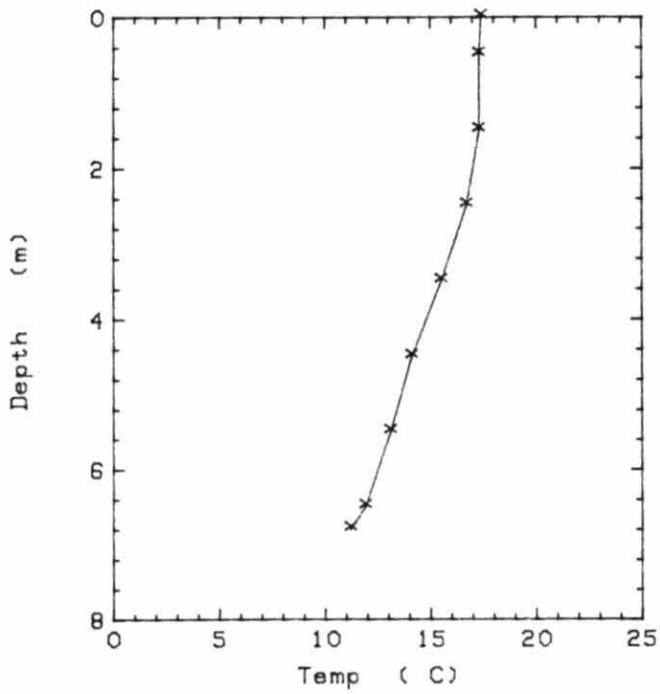


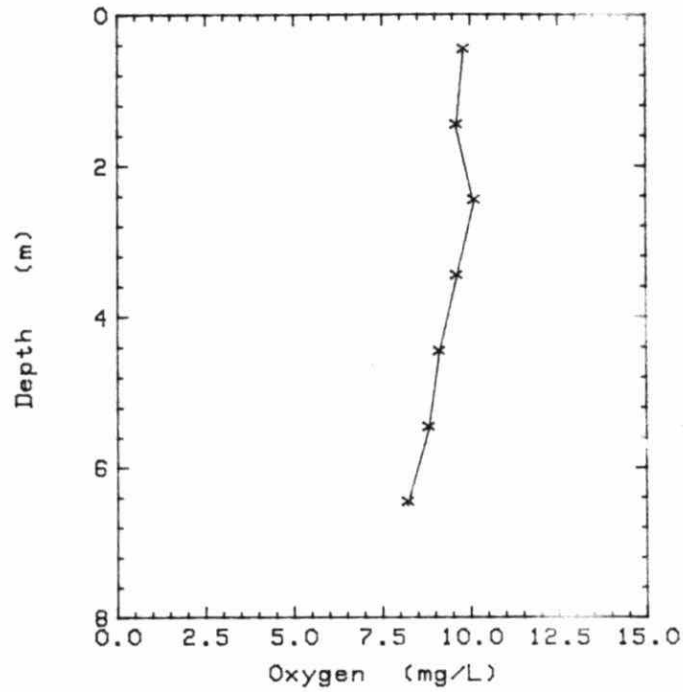



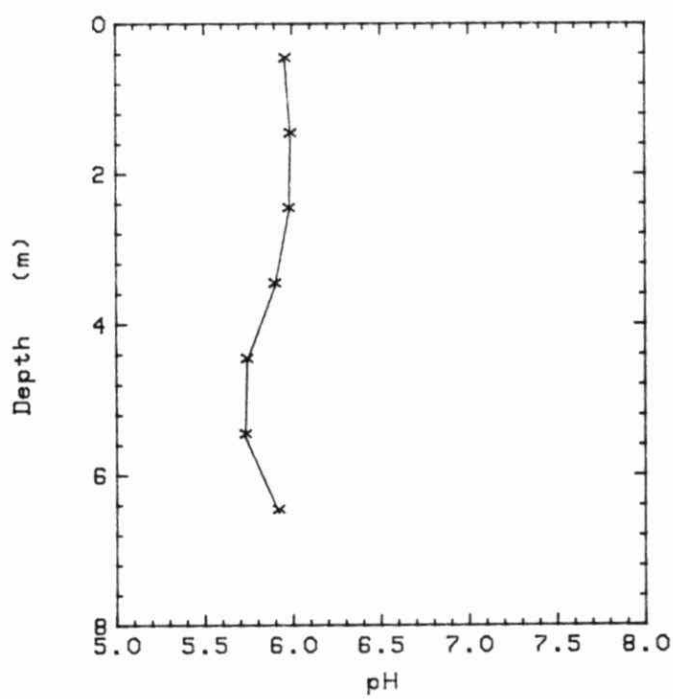



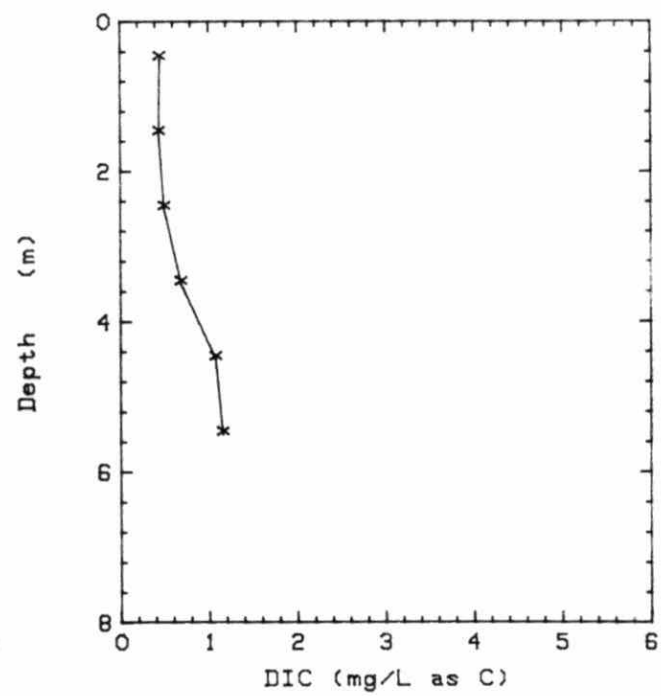



# HEALEY 85.05.17

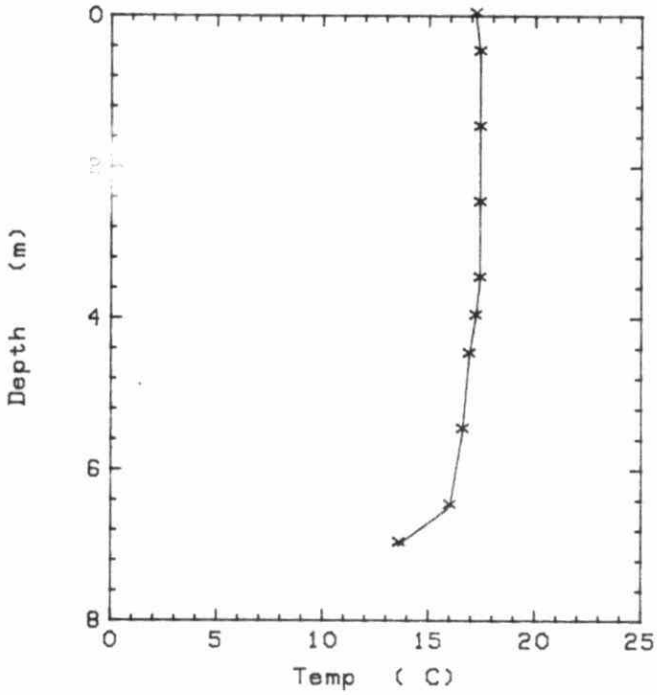


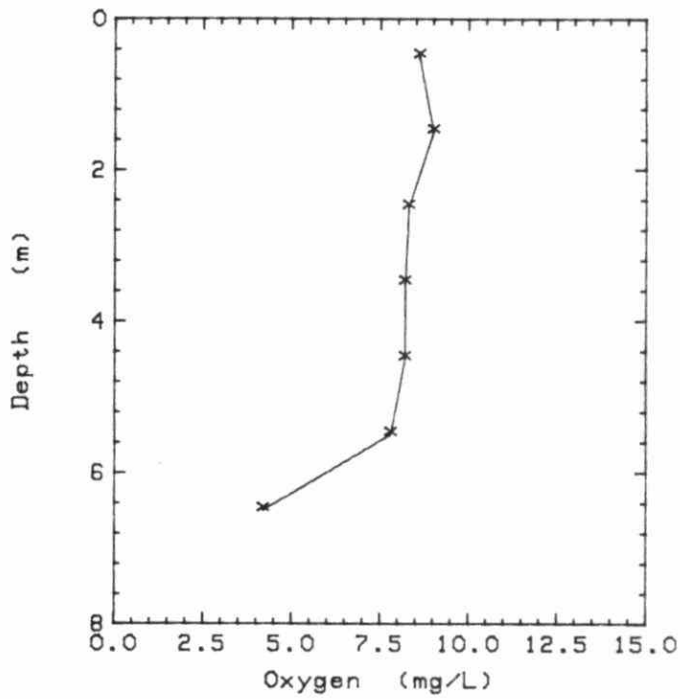



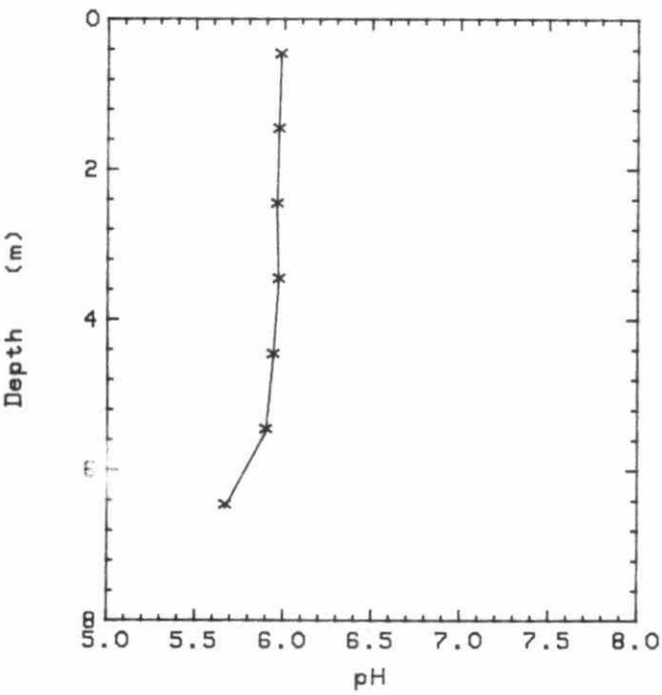



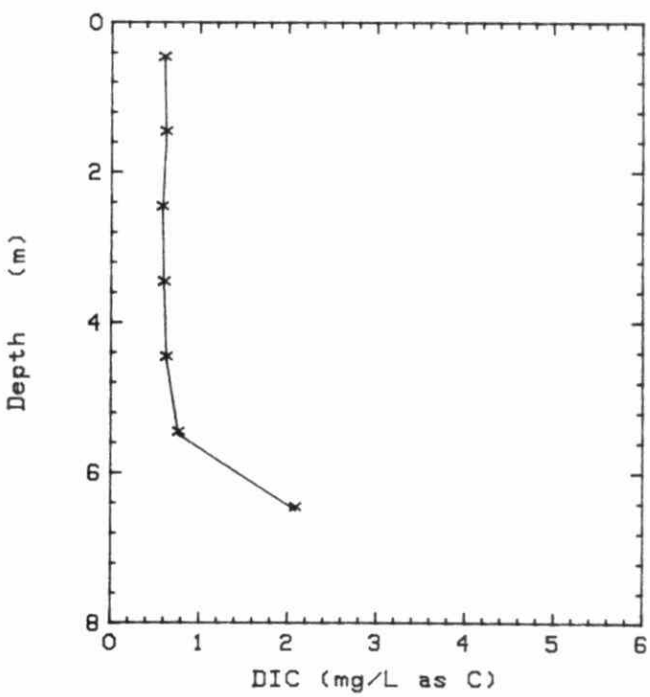



# HEALEY 85.06.13

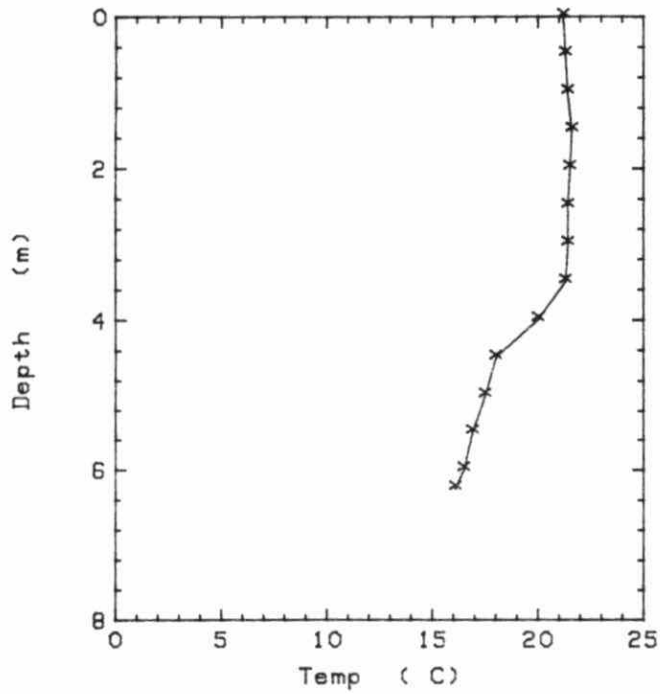


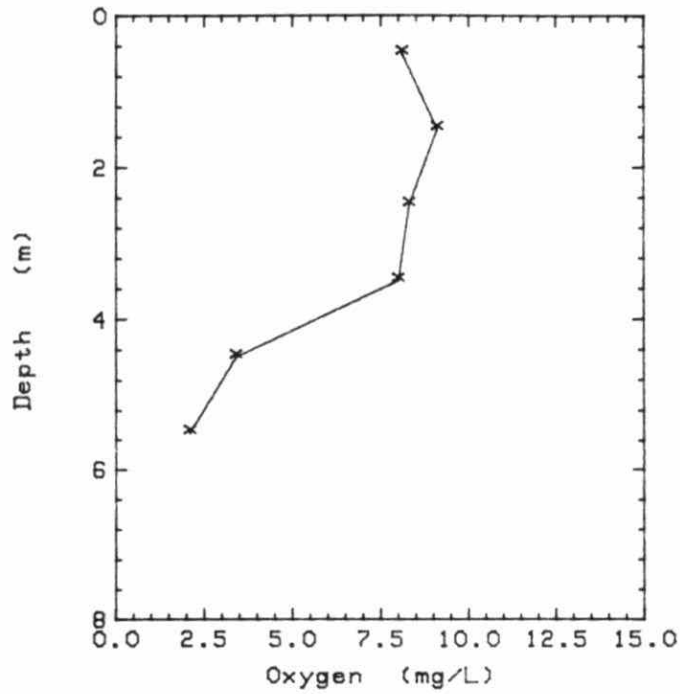



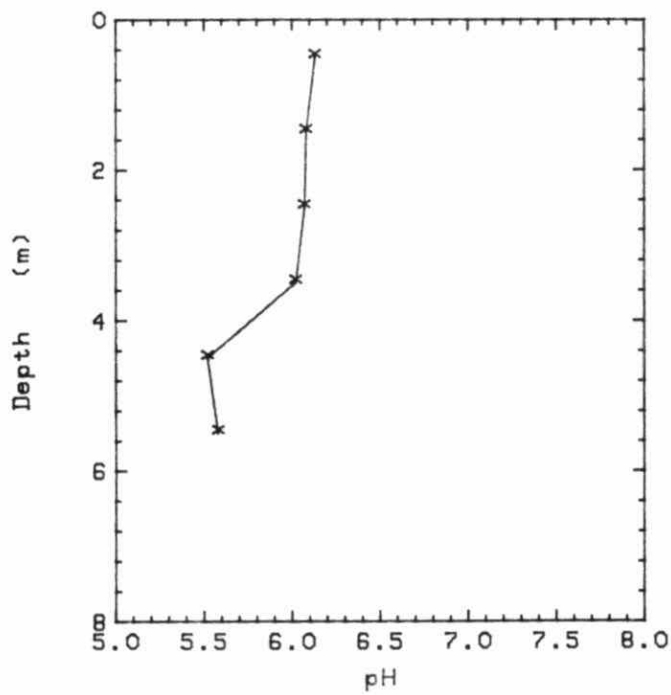



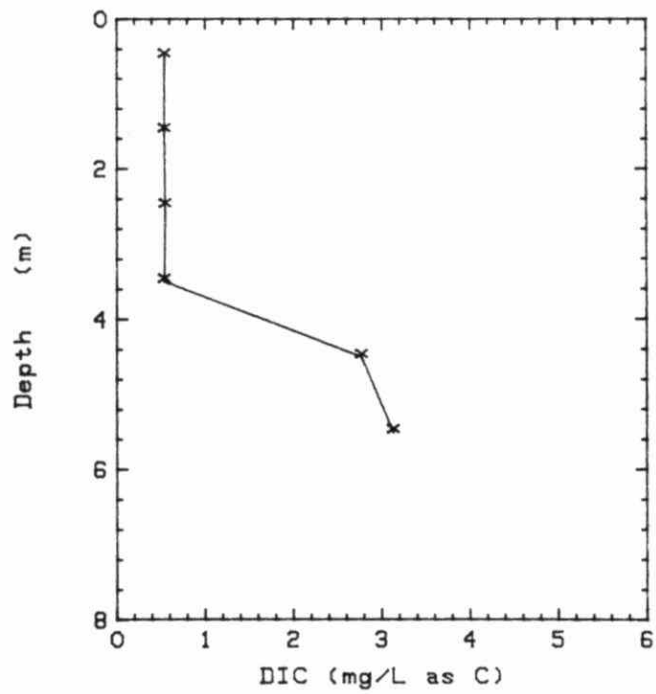



# HEALEY 85.07.11

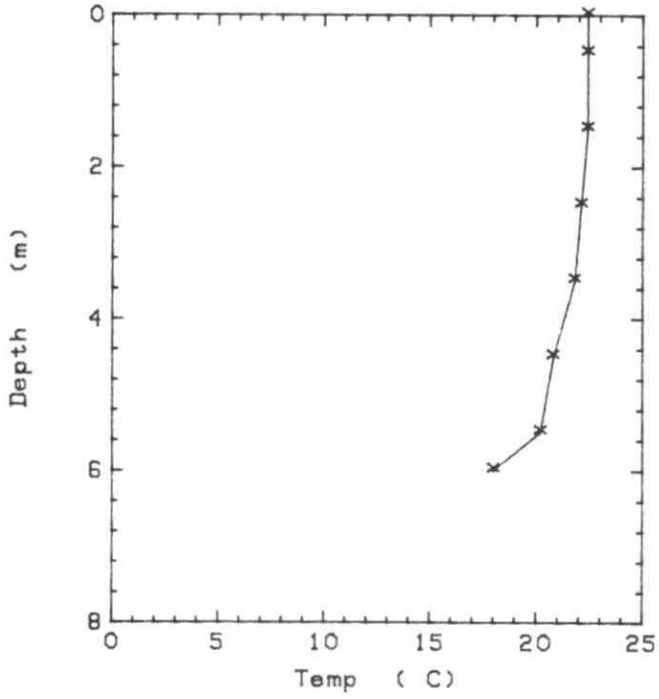


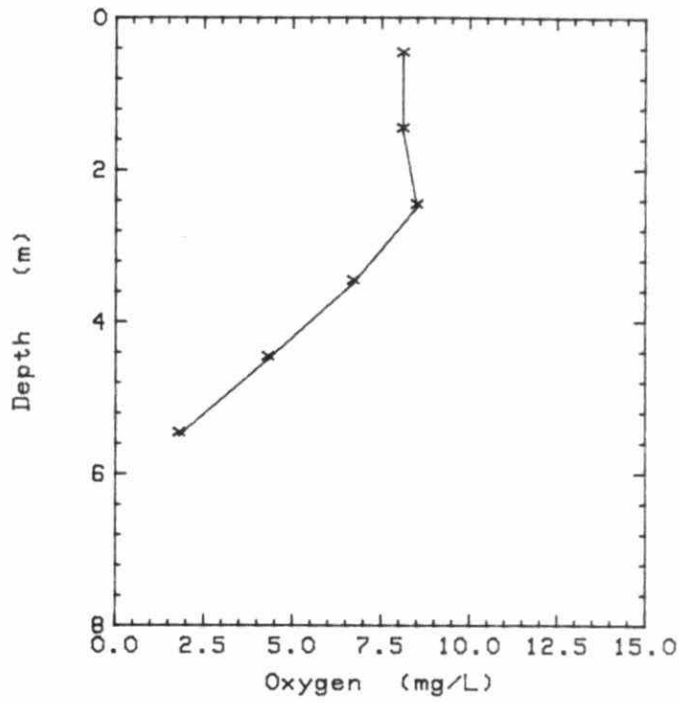



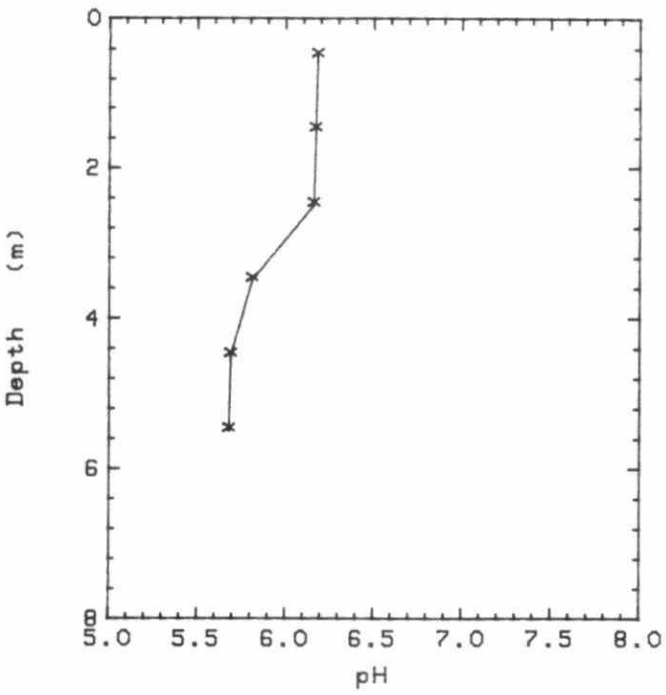



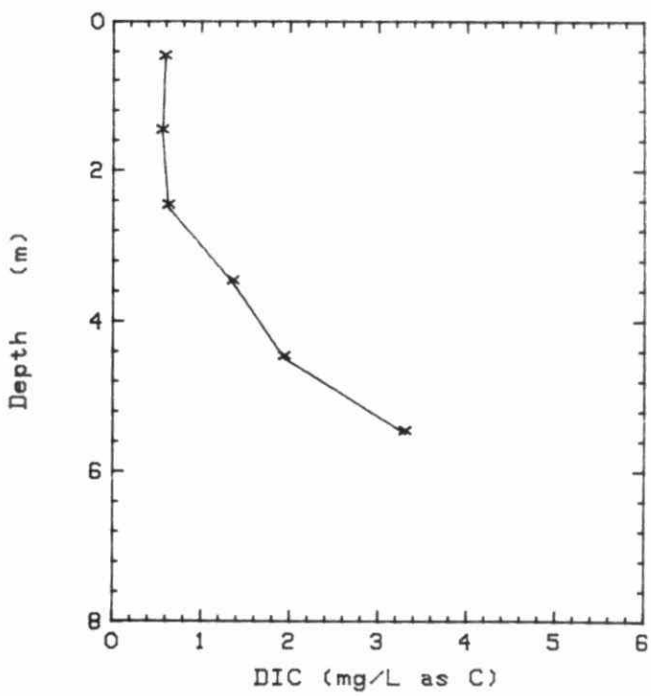



# HEALEY 85.08.08

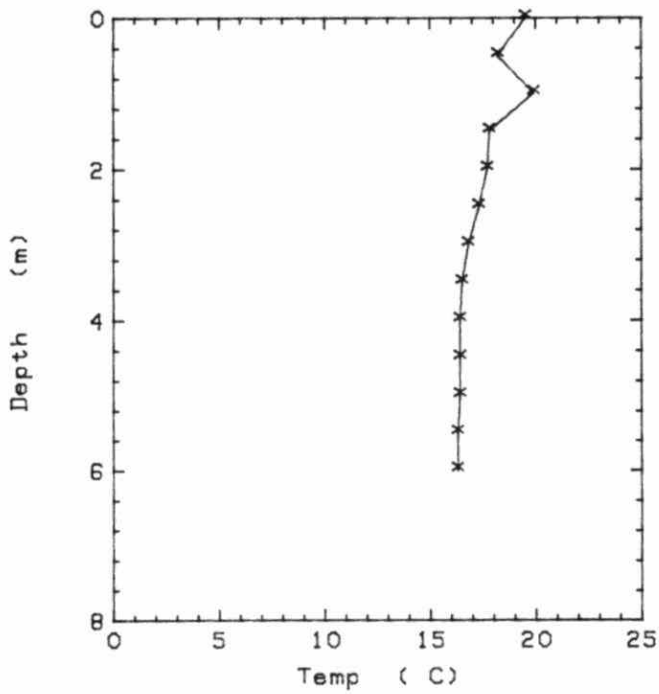


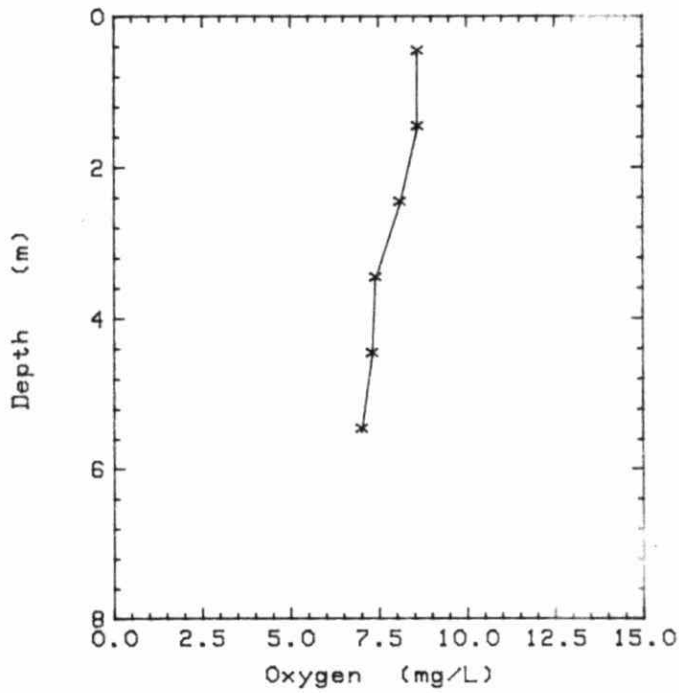



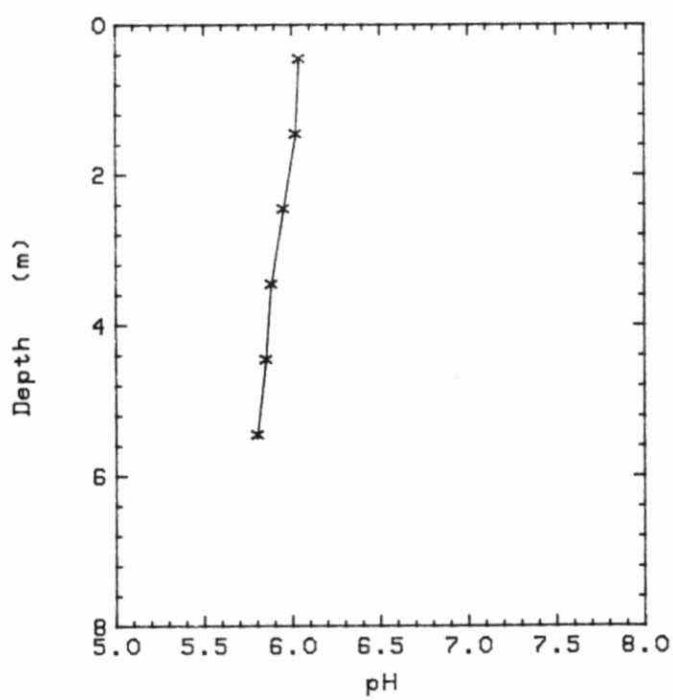



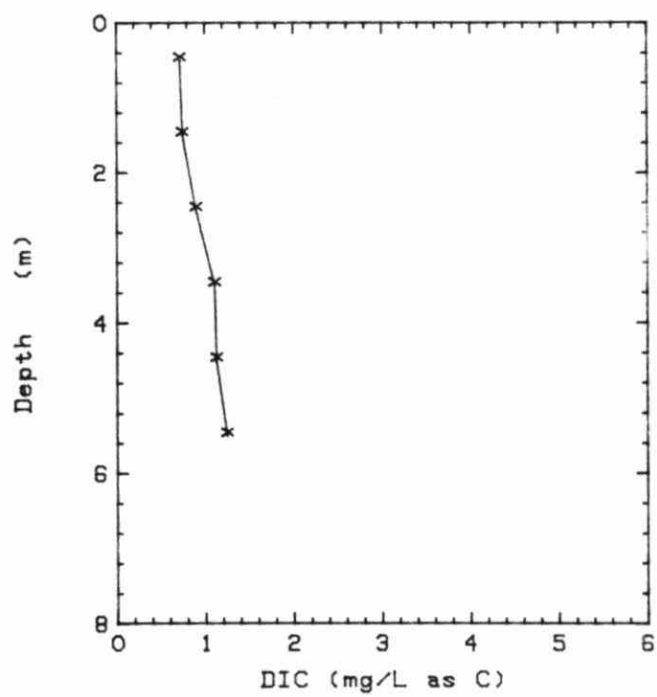



# HEALEY 85.09.19

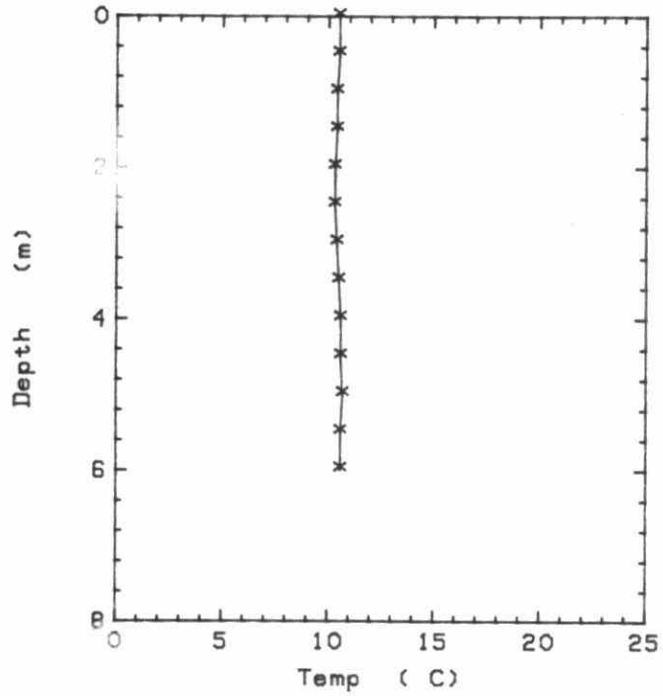


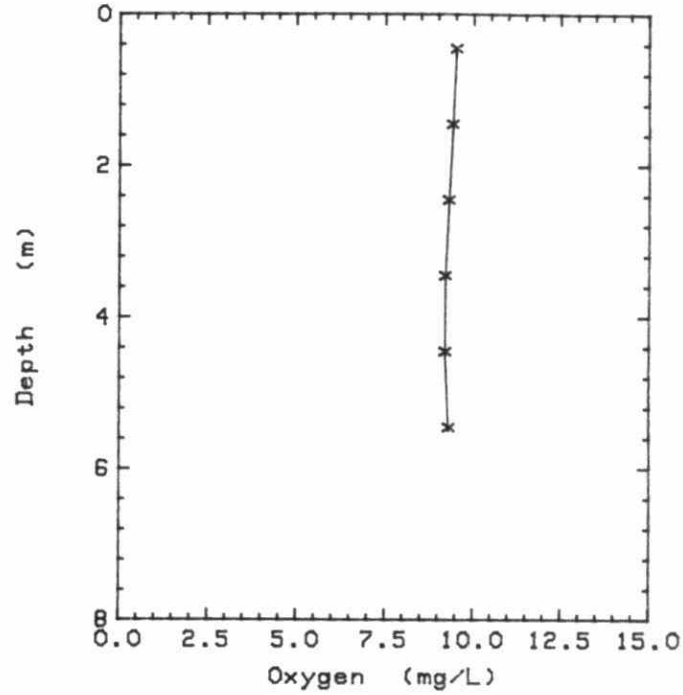



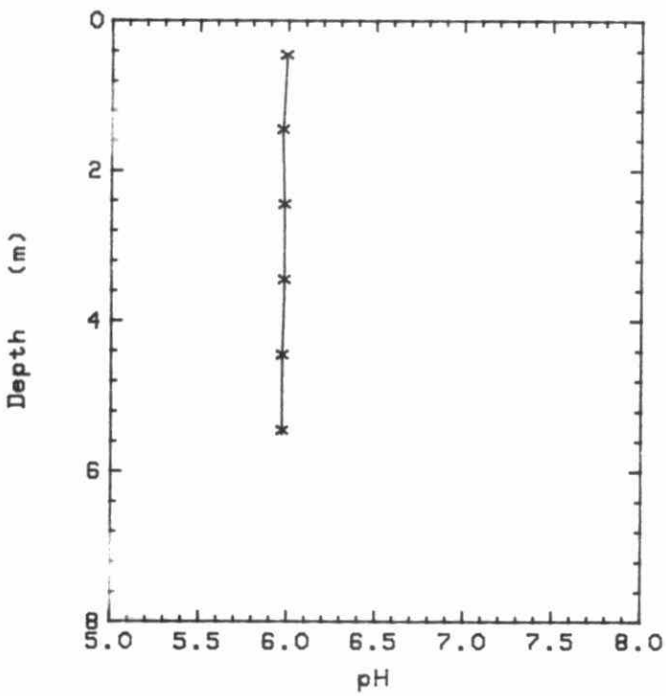



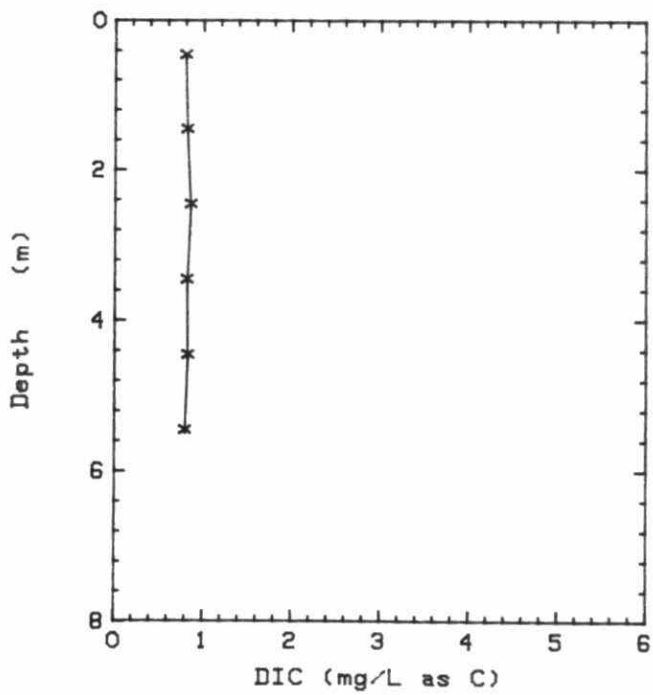



# HEALEY 85.10.17

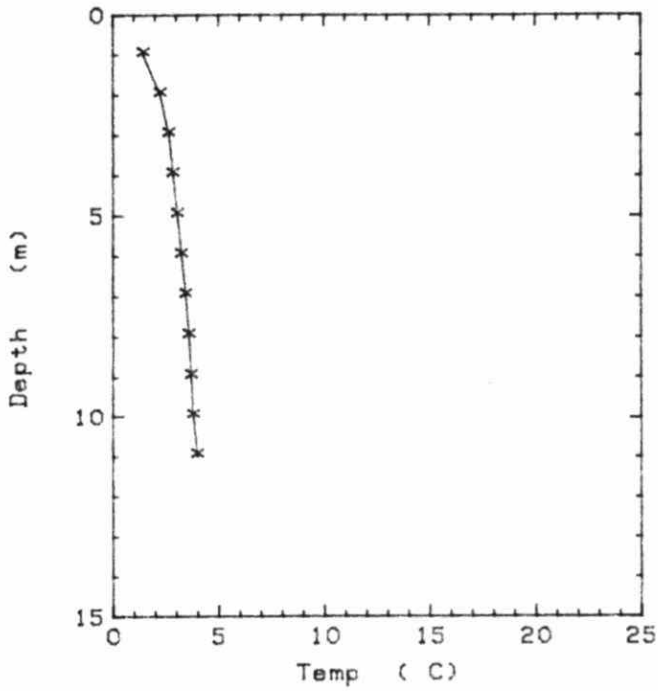


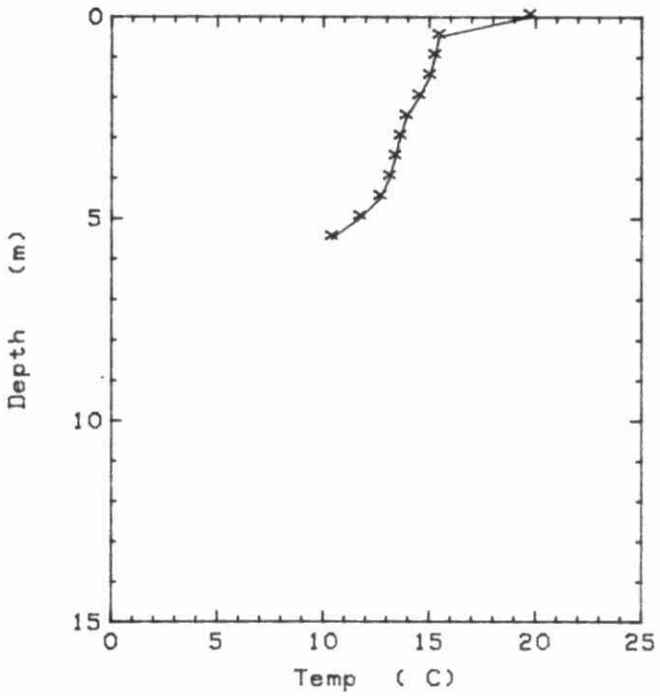



# LEECH 79.02.06



# LEECH 79.05.31



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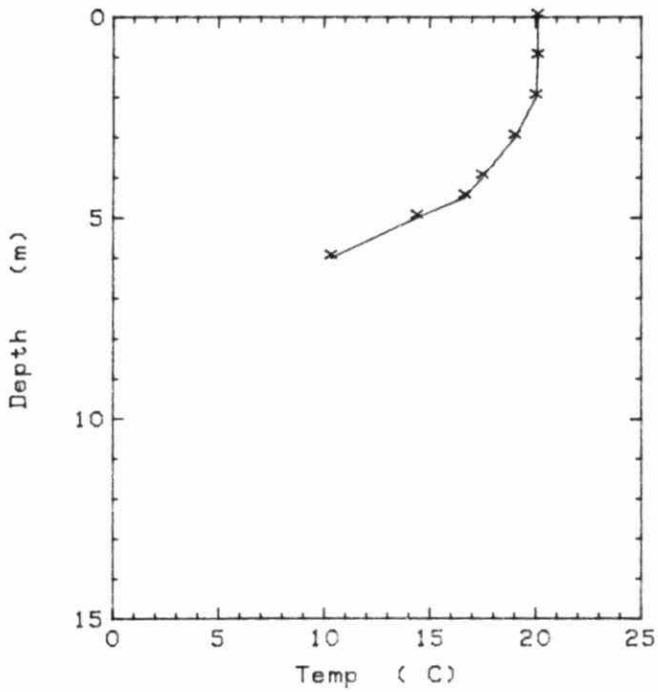
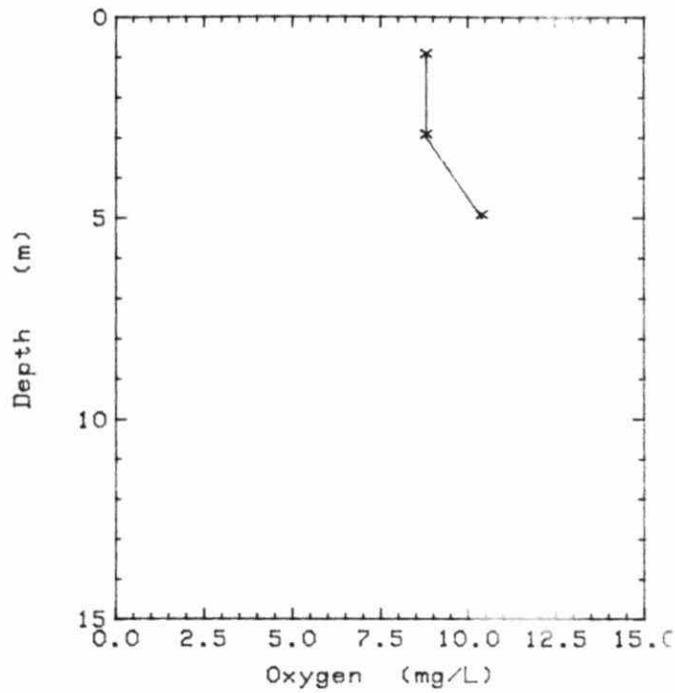
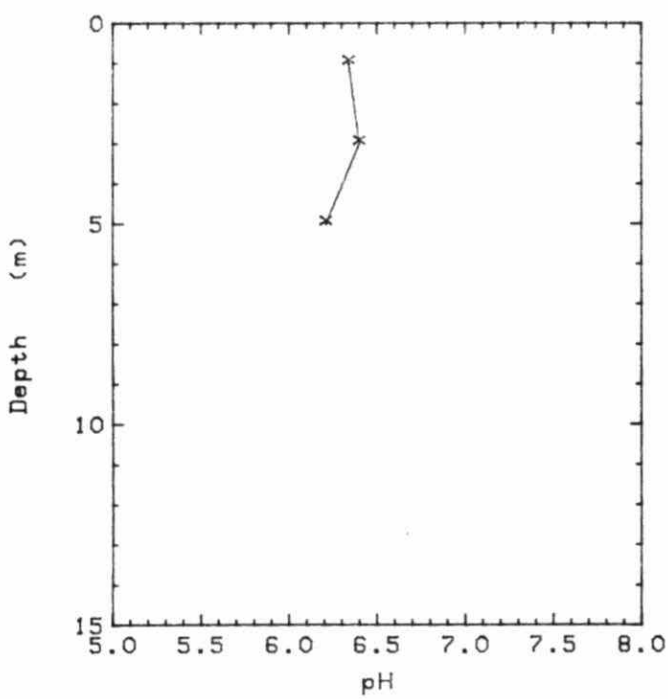
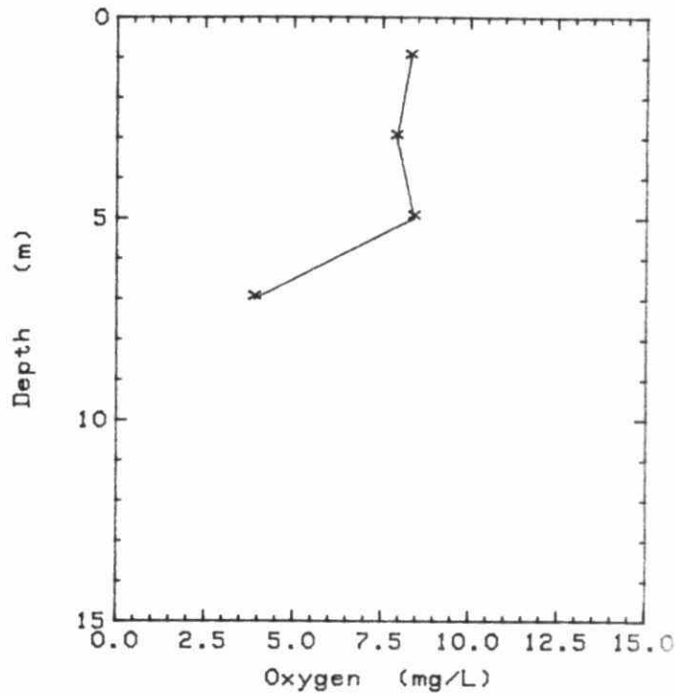
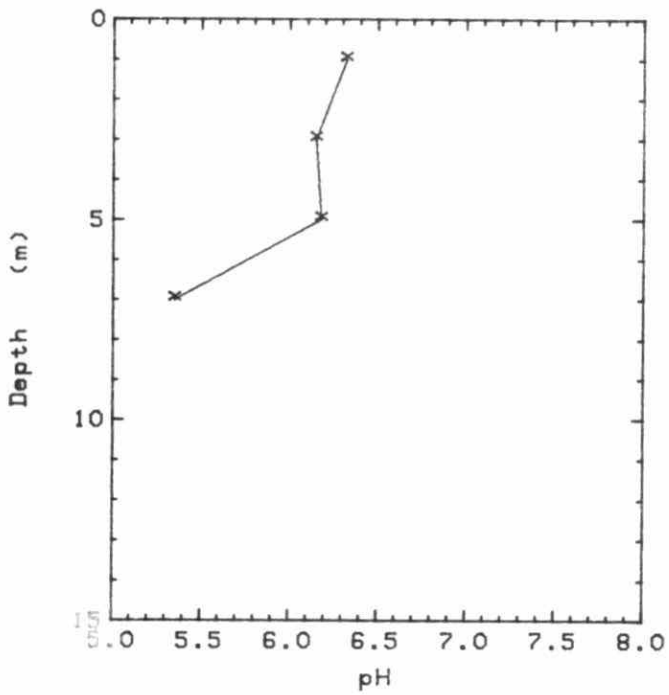


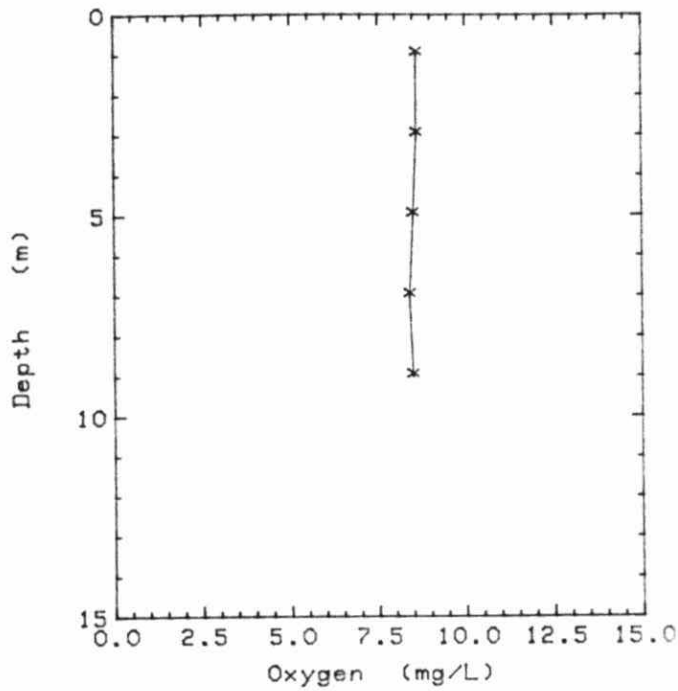



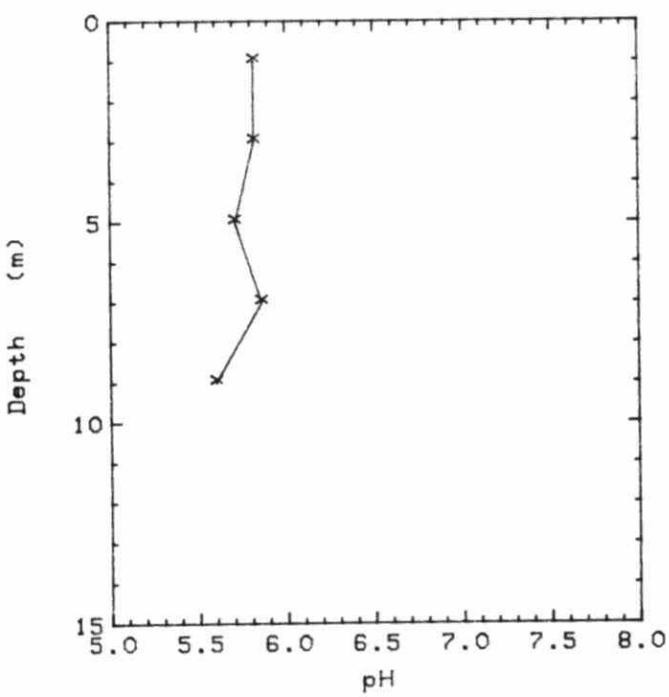
# LEECH 79.08.14



# LEECH 79.10.16



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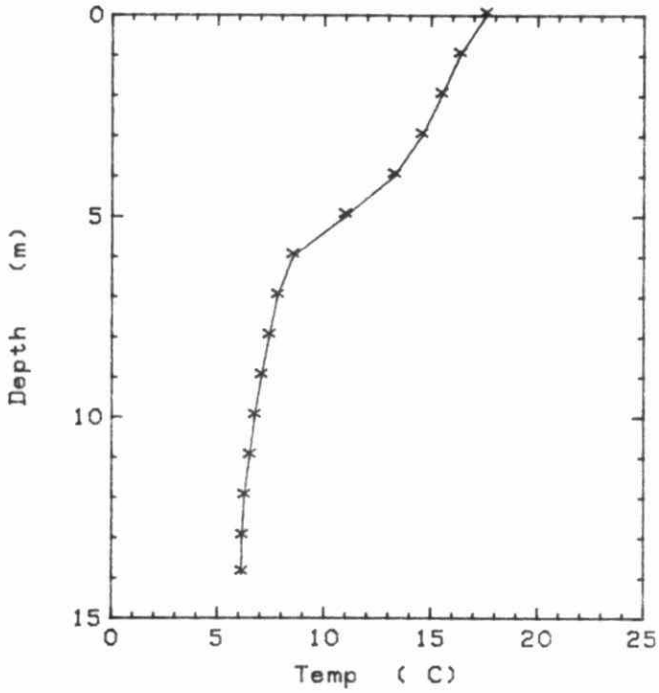
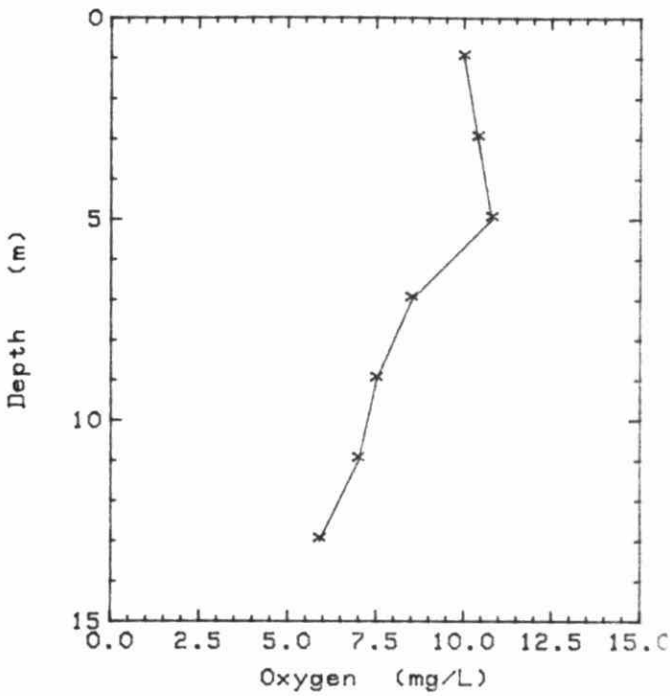
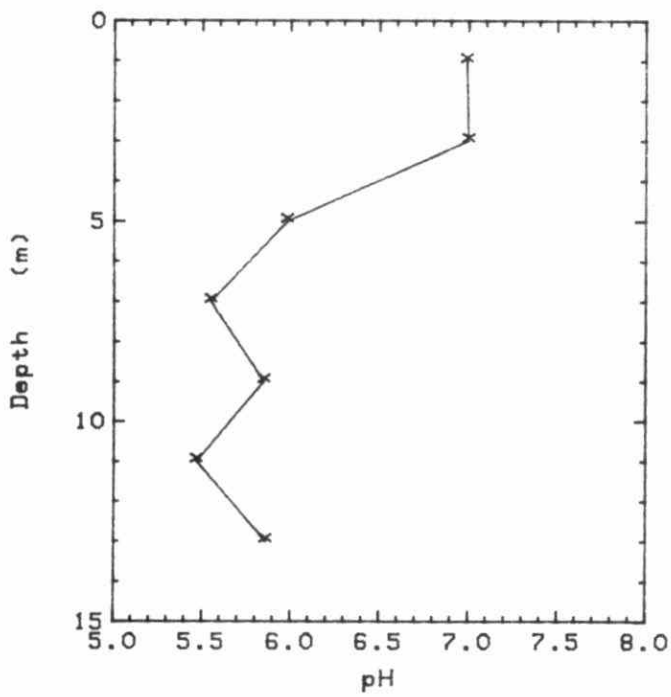
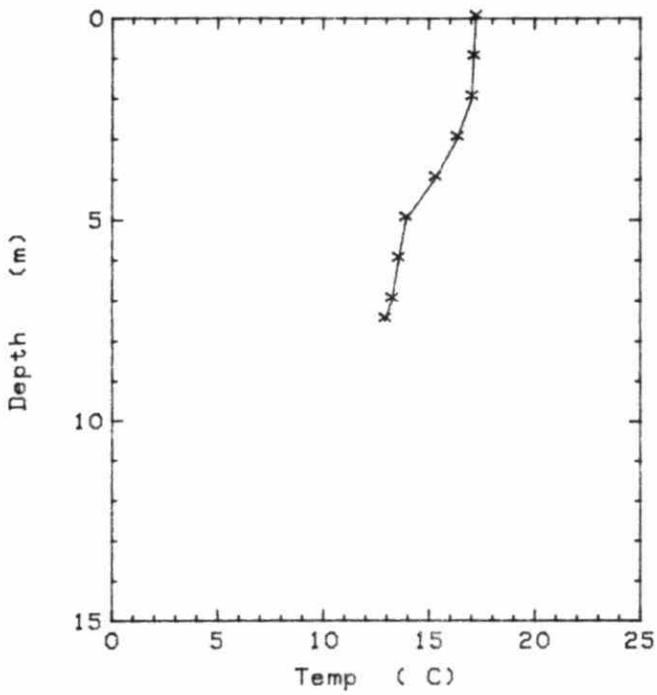
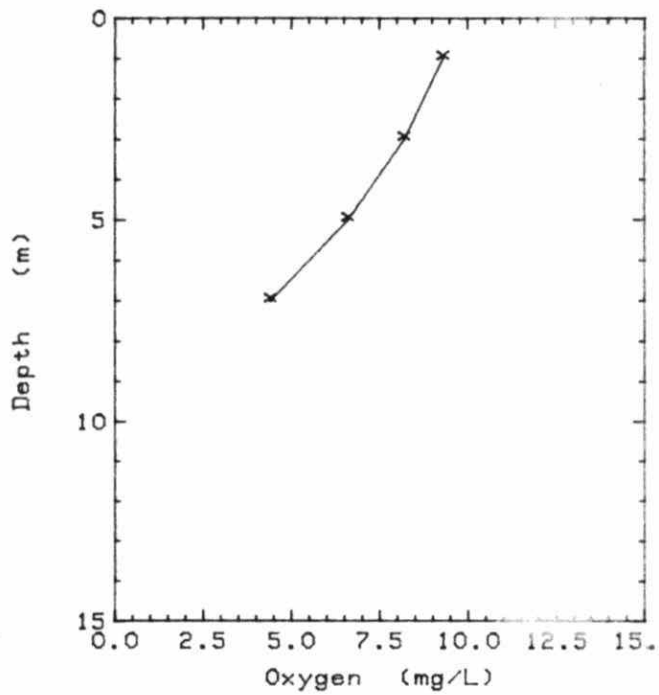


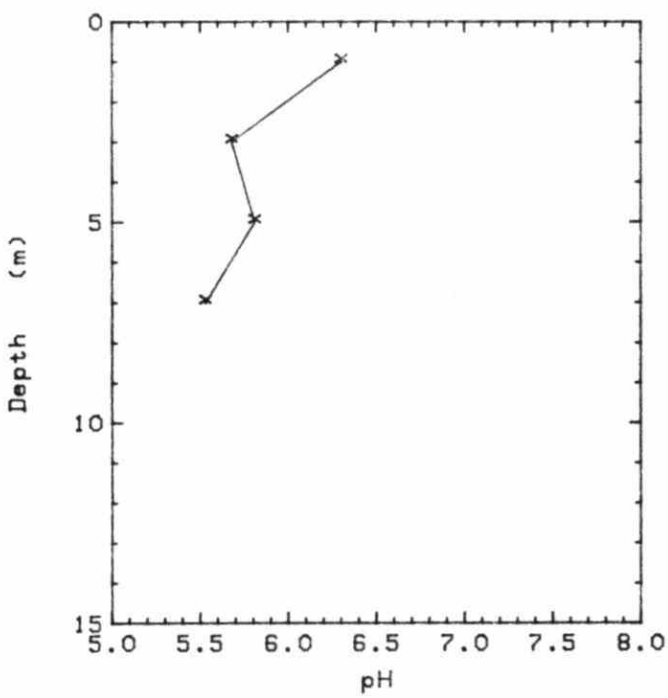



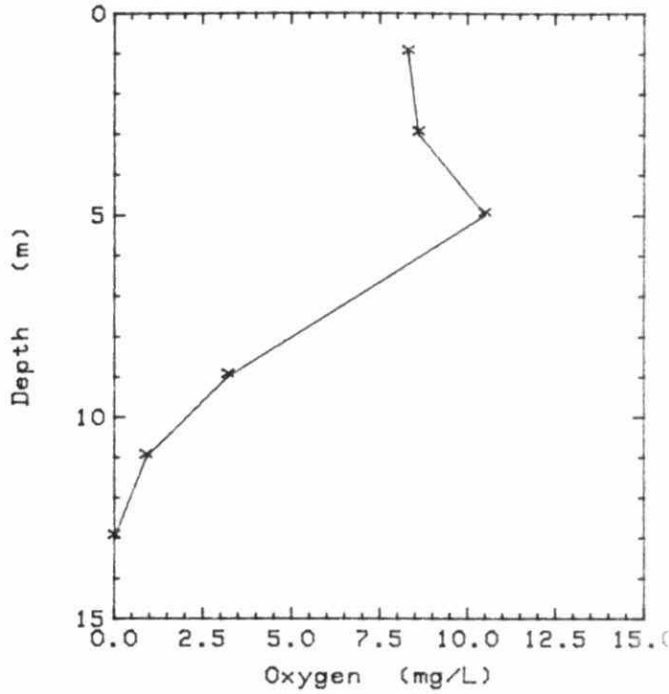
# LEECH 80.06.18

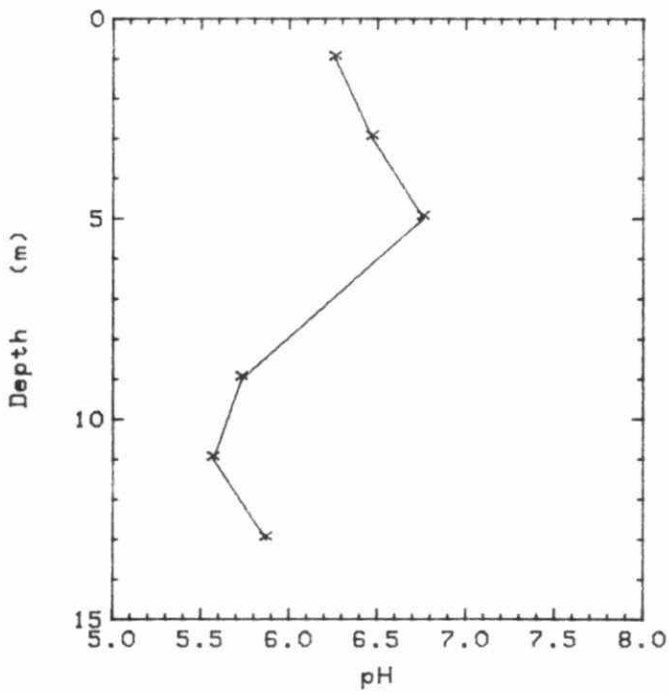


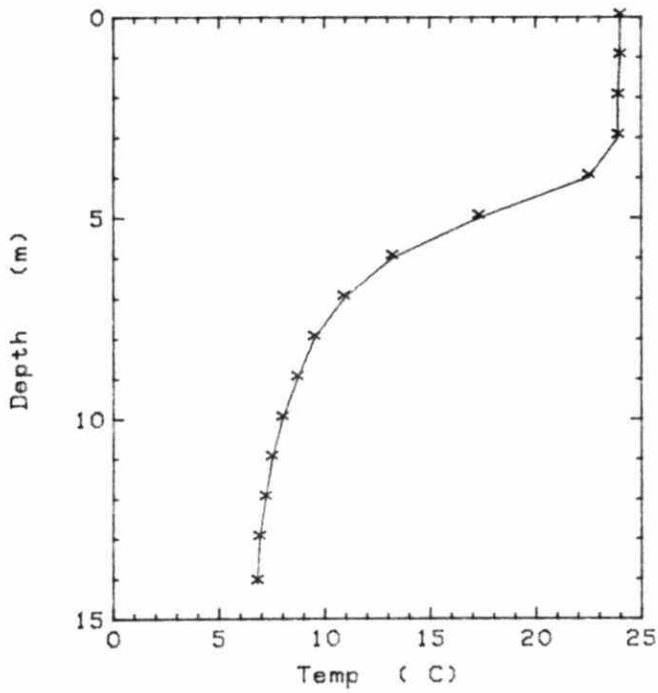



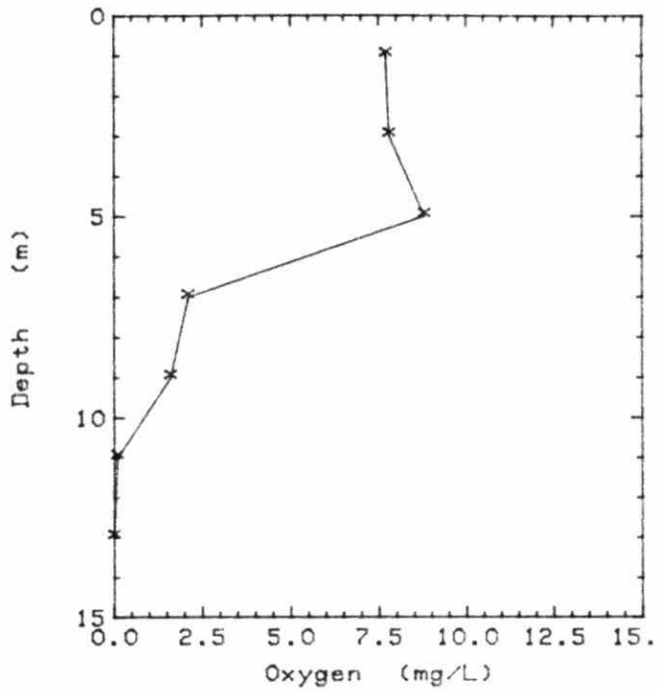
# LEECH 80.07.15

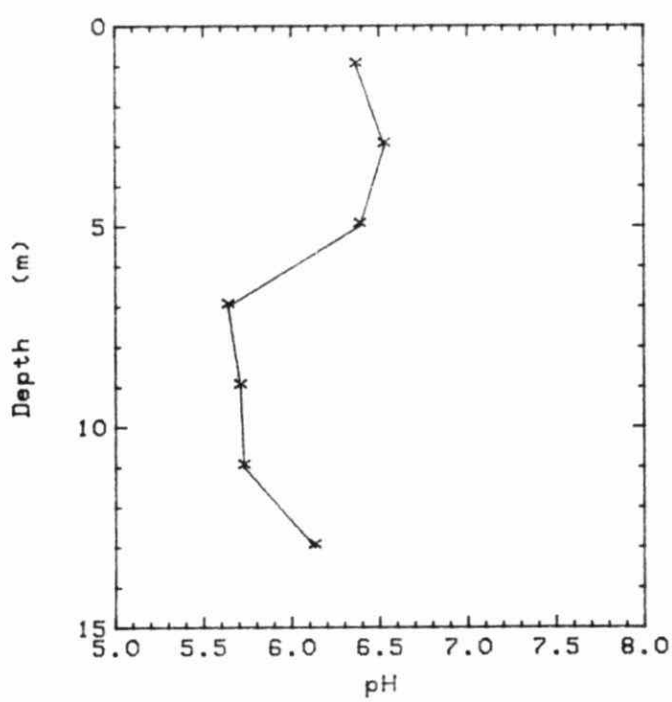


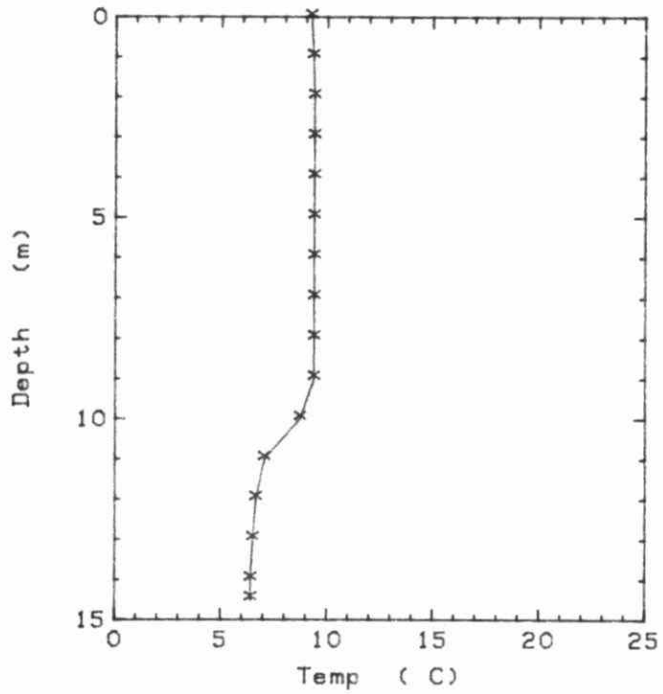
# LEECH 80.08.13

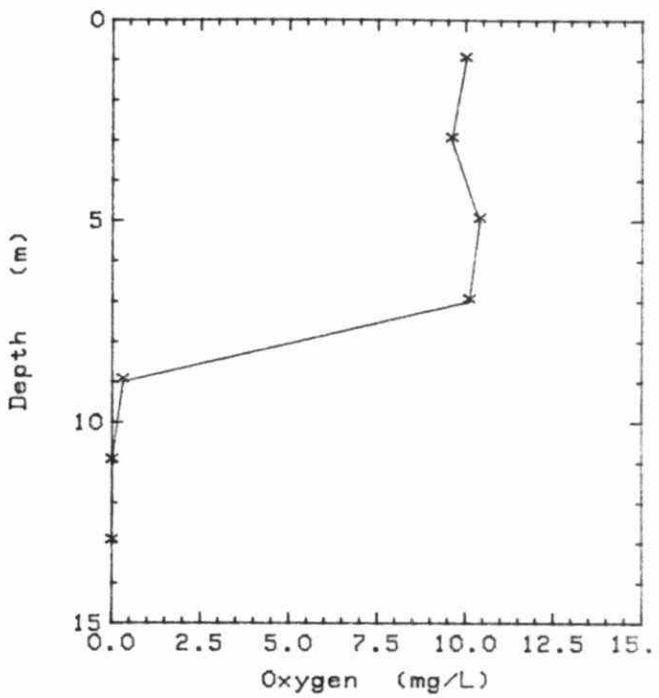


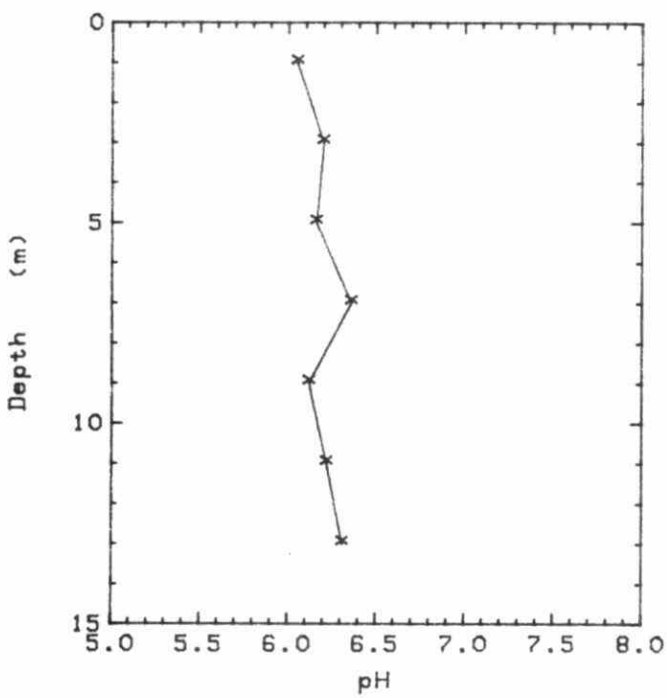



# LEECH 80.10.22



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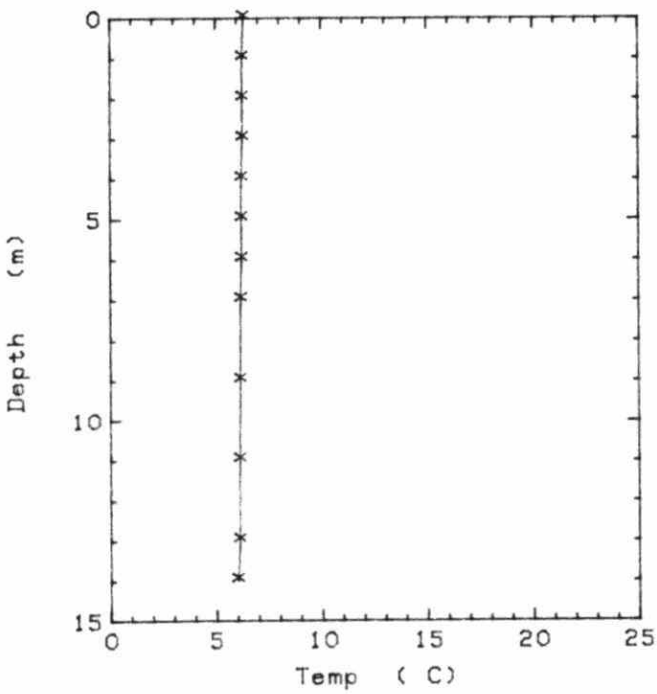


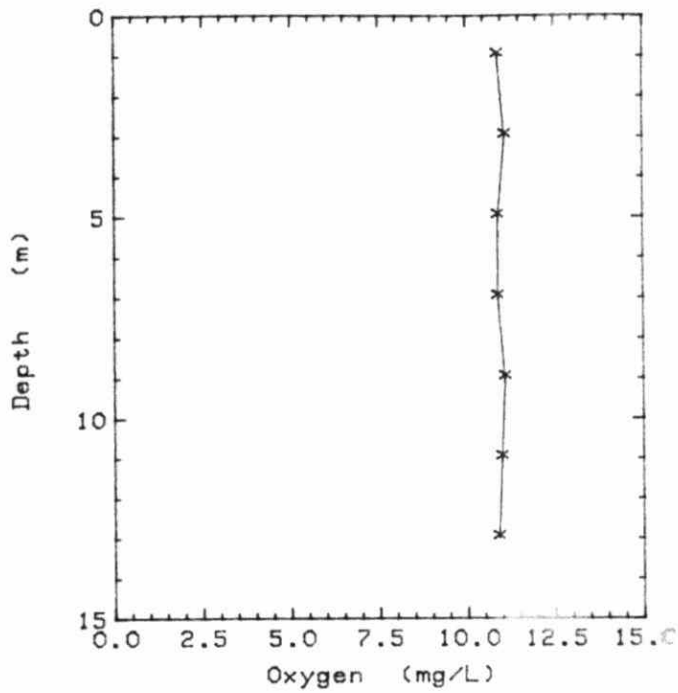


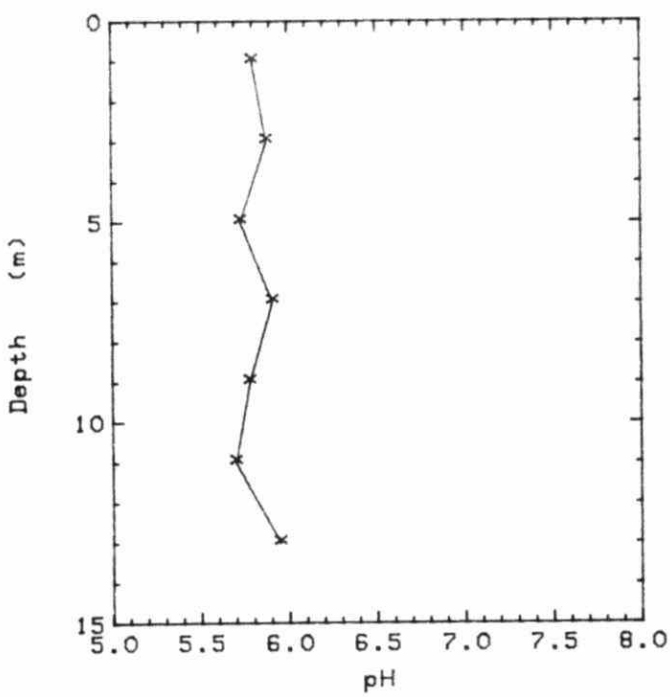

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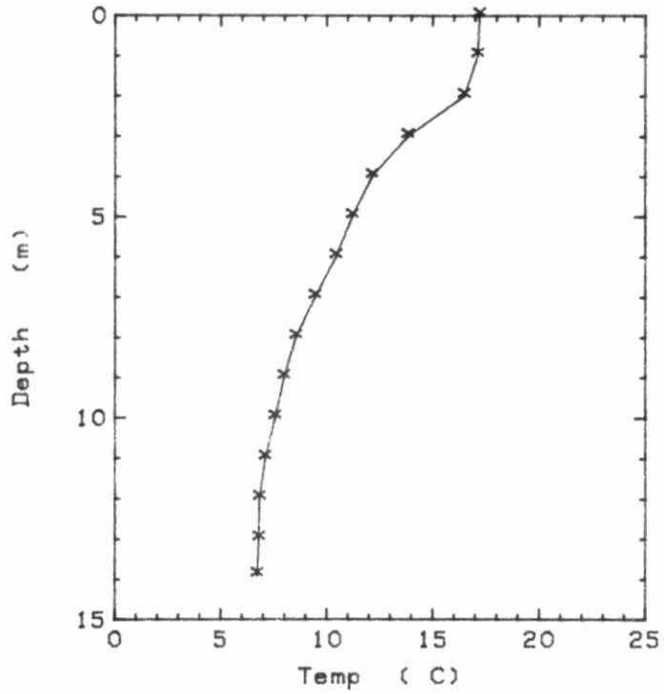


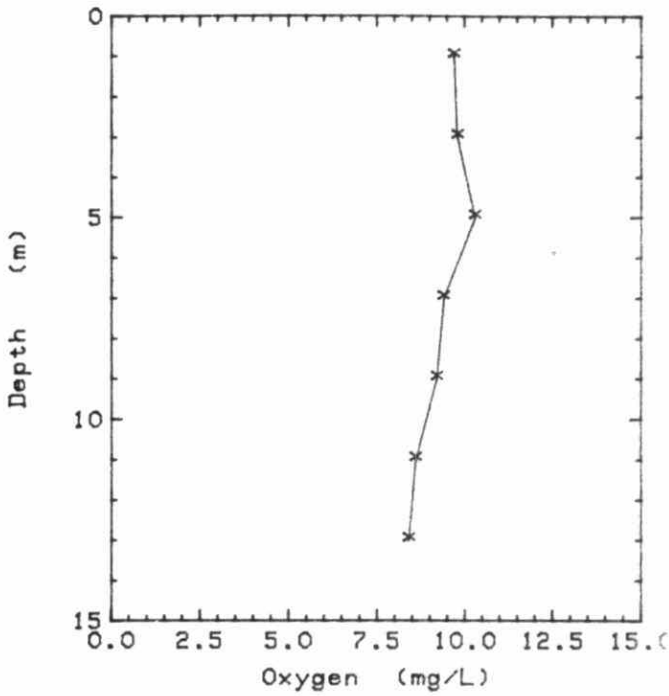


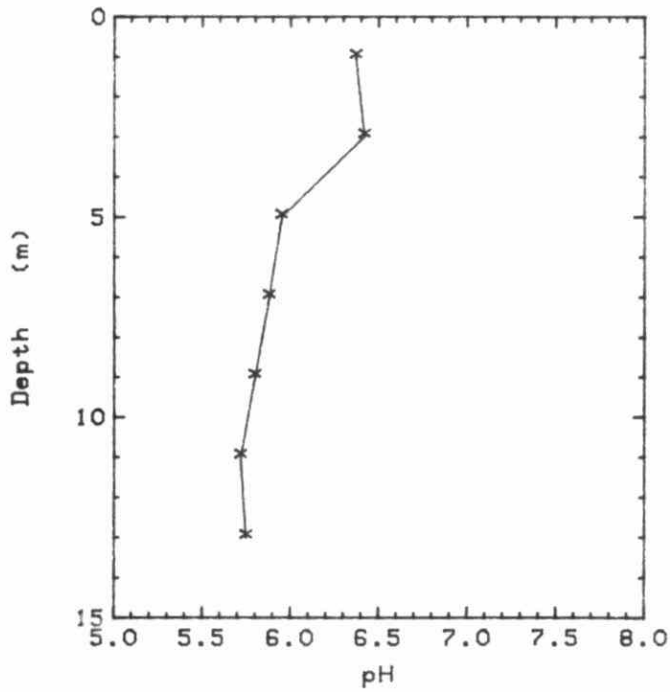


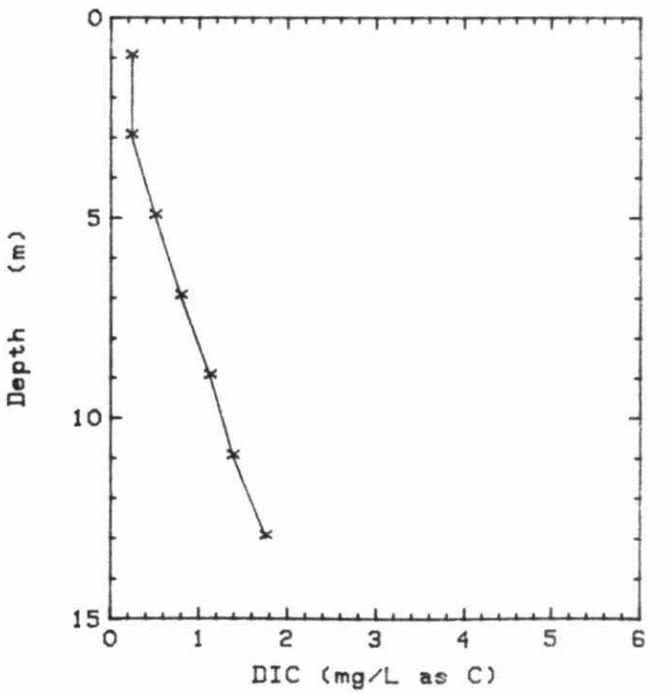

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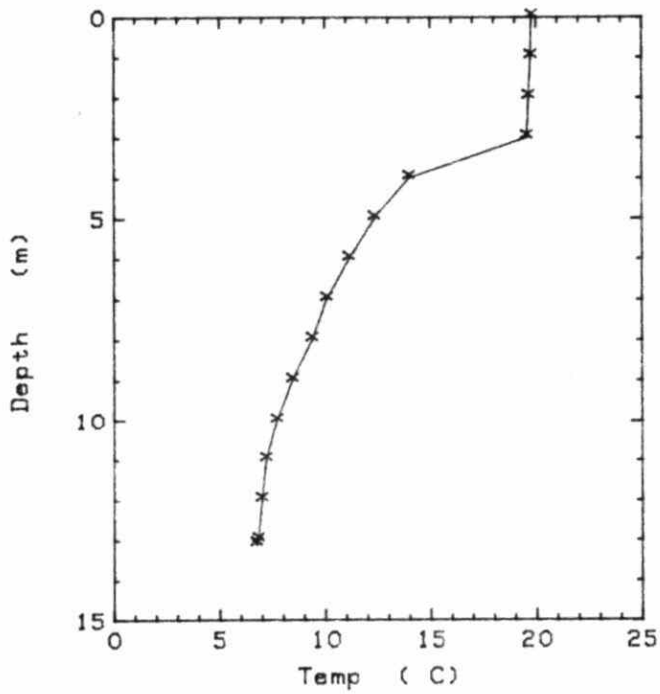
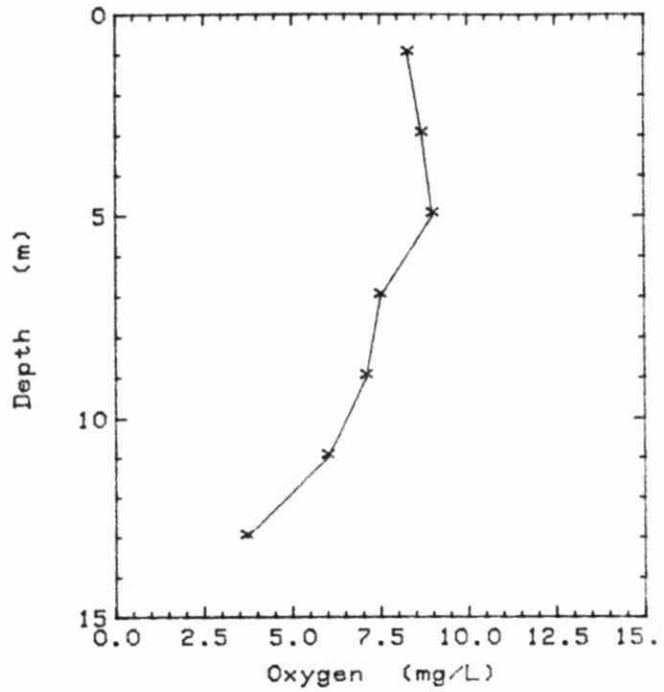
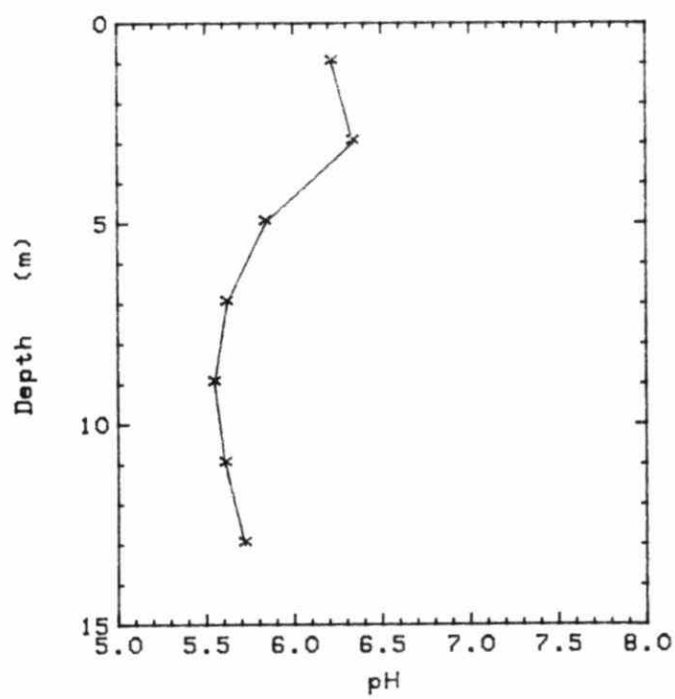
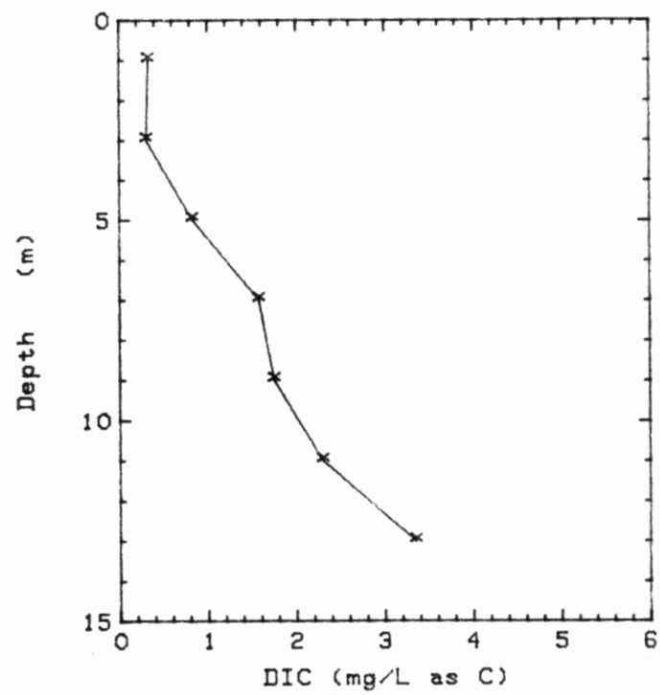
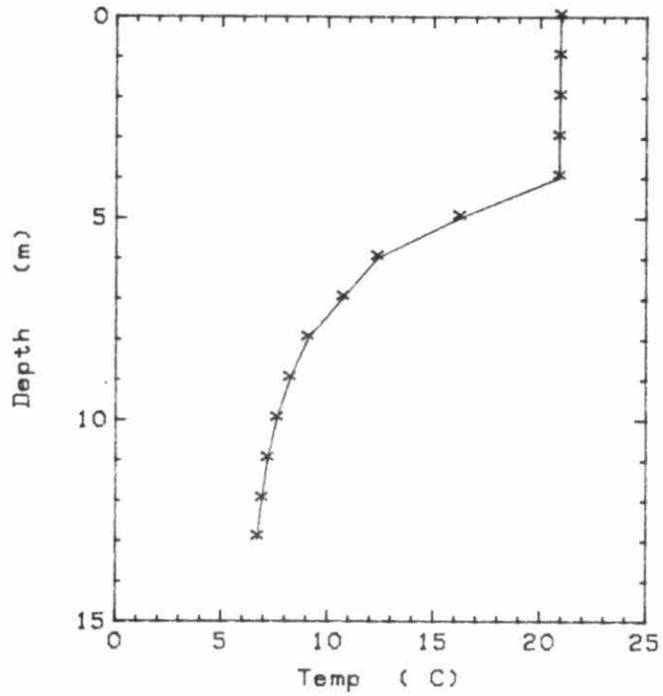


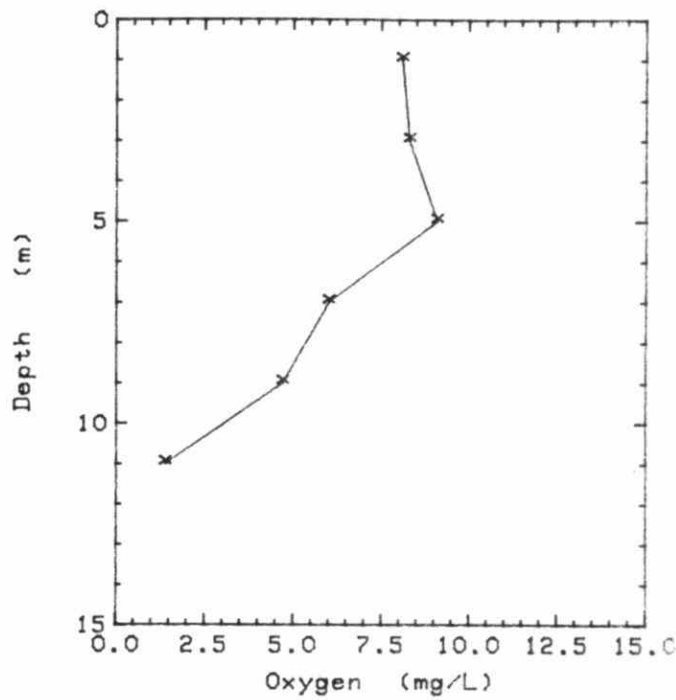



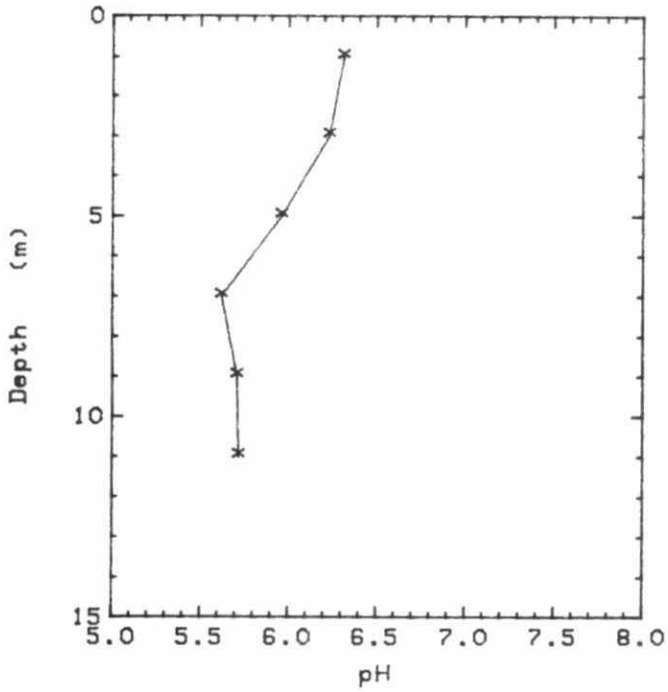



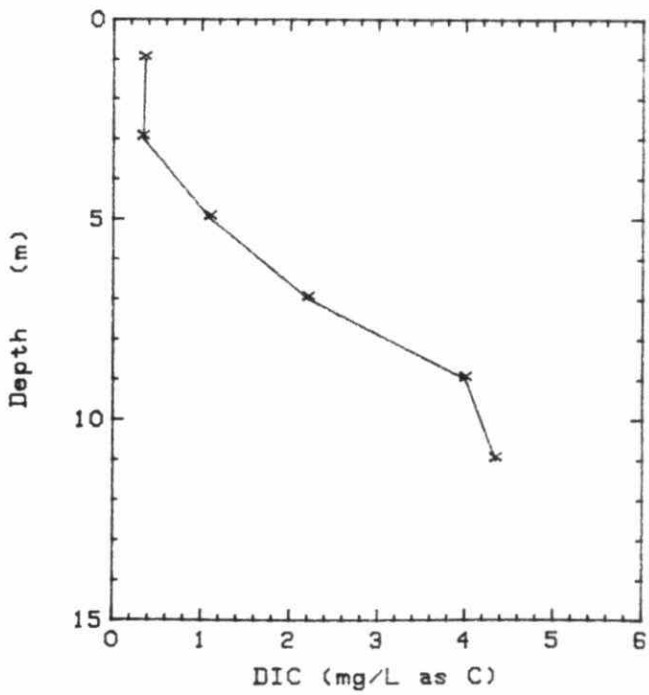



# LEECH 81.07.29

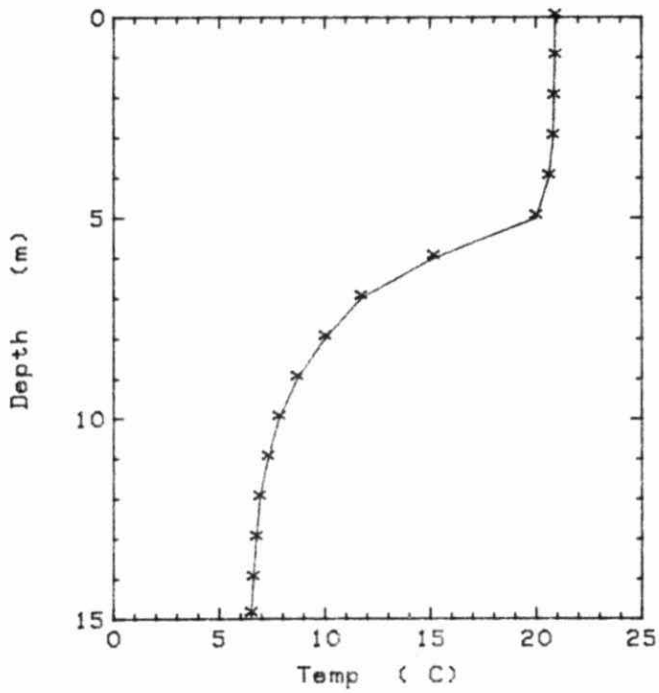


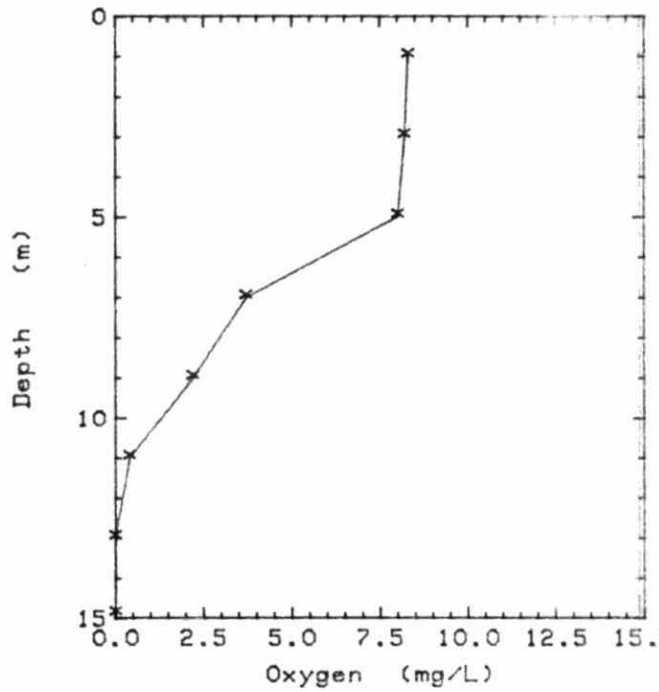



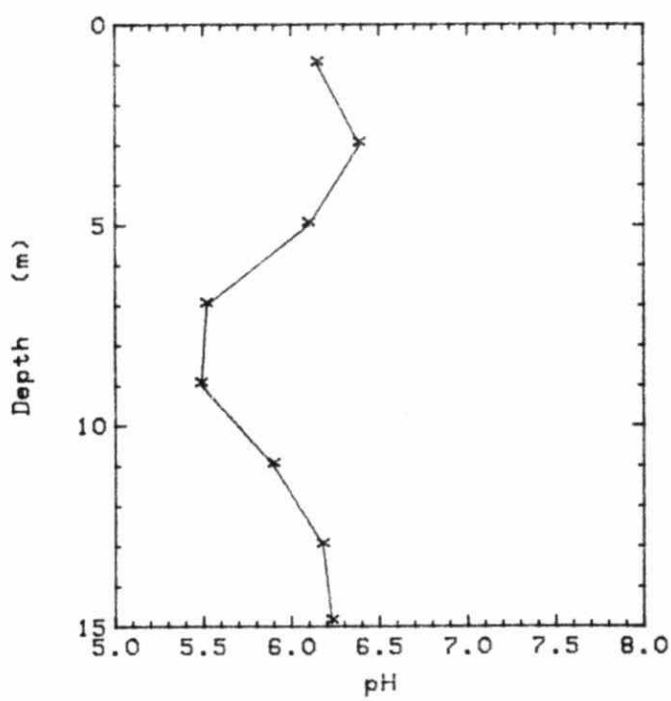



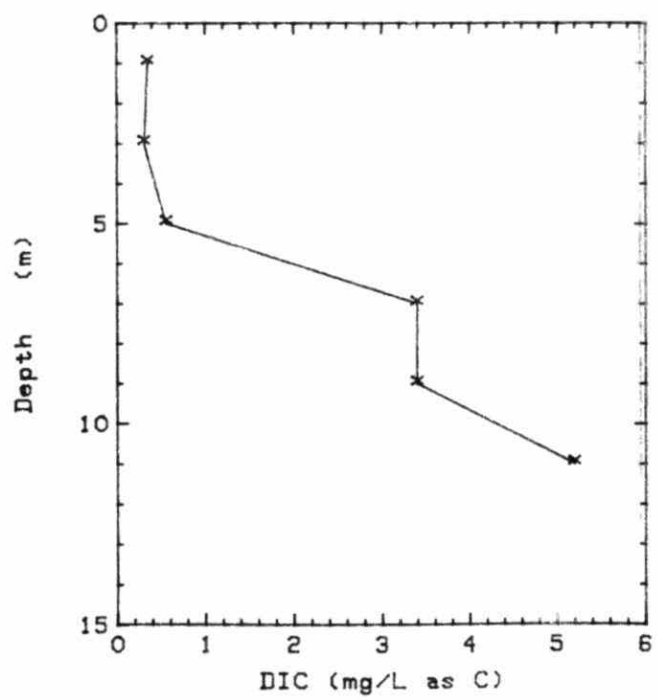



# LEECH 81.09.03

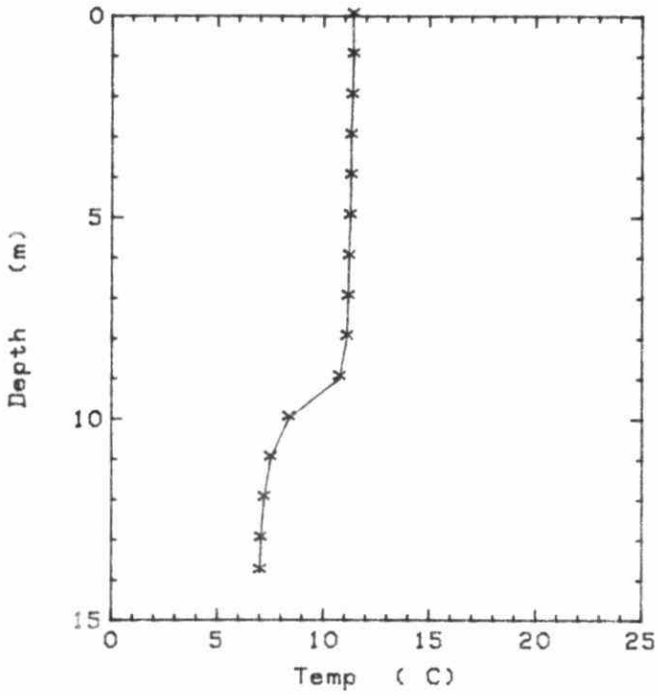


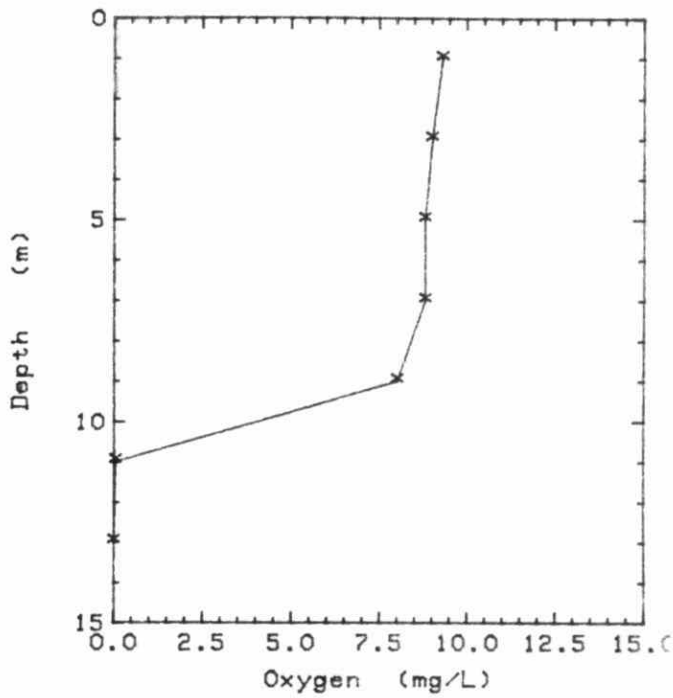



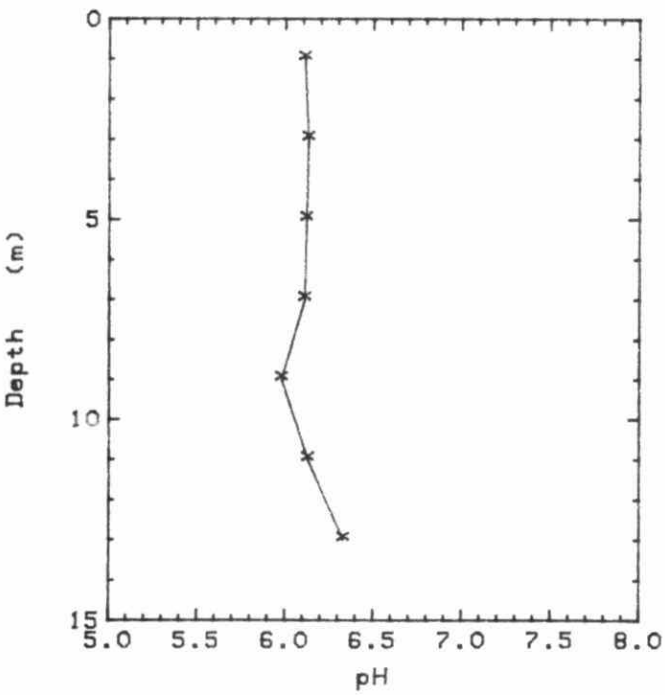



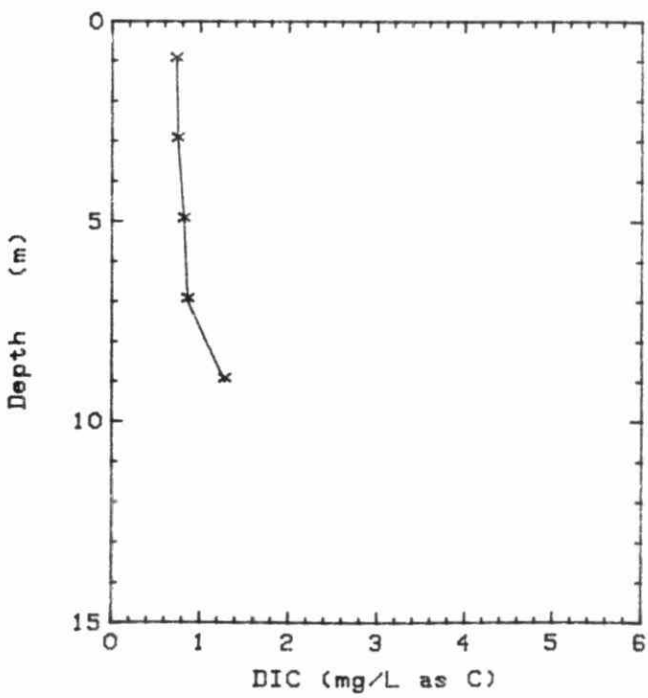



# LEECH 81.10.06

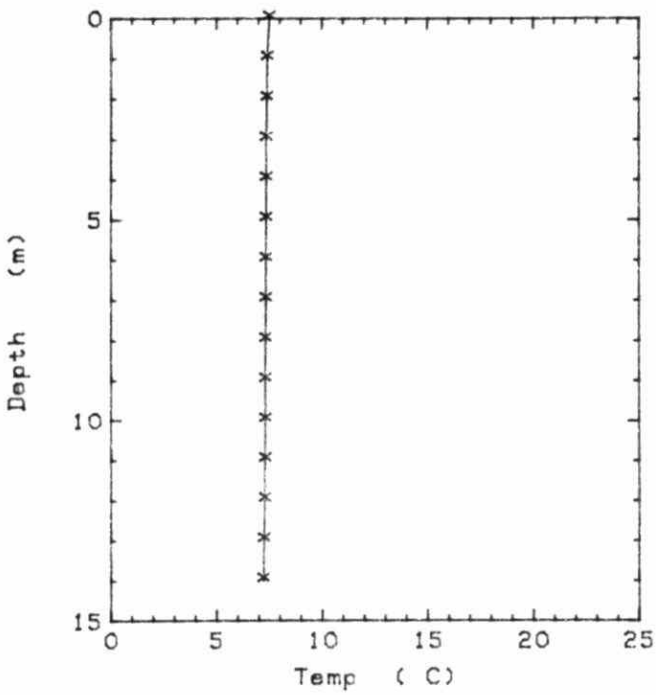


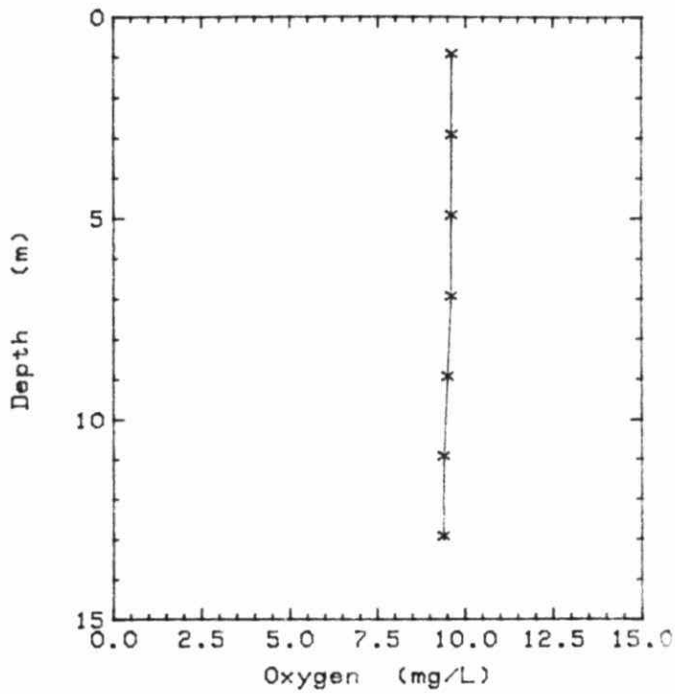



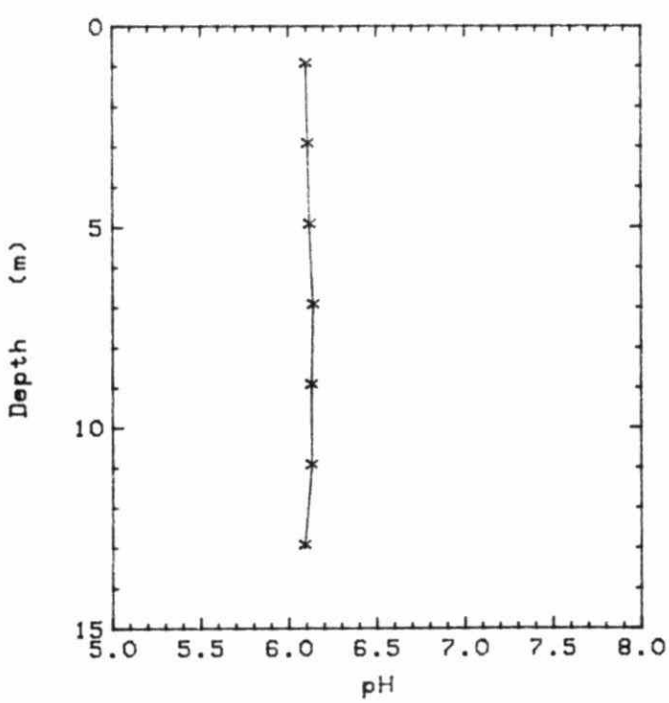



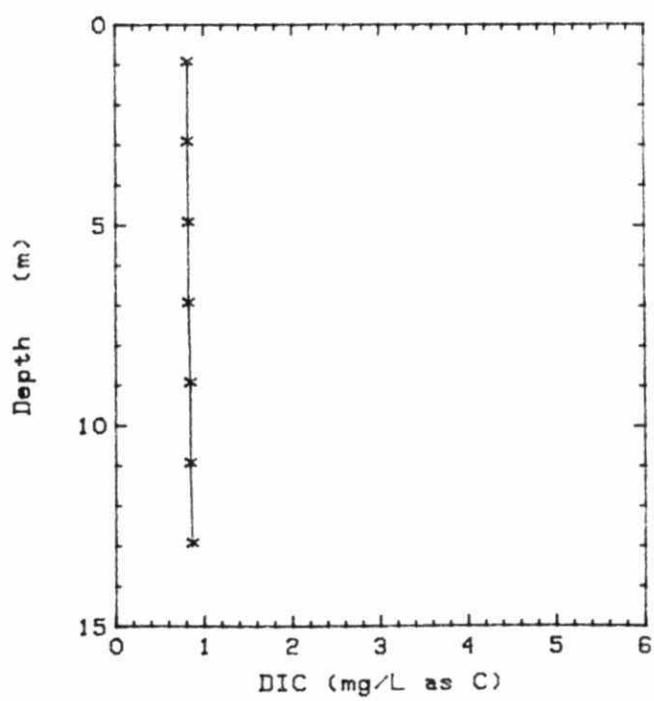



# LEECH 81.10.26

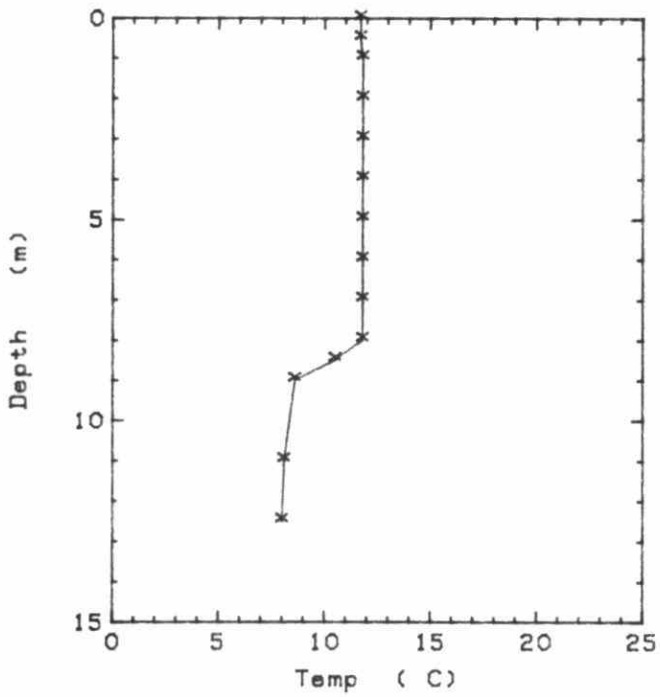


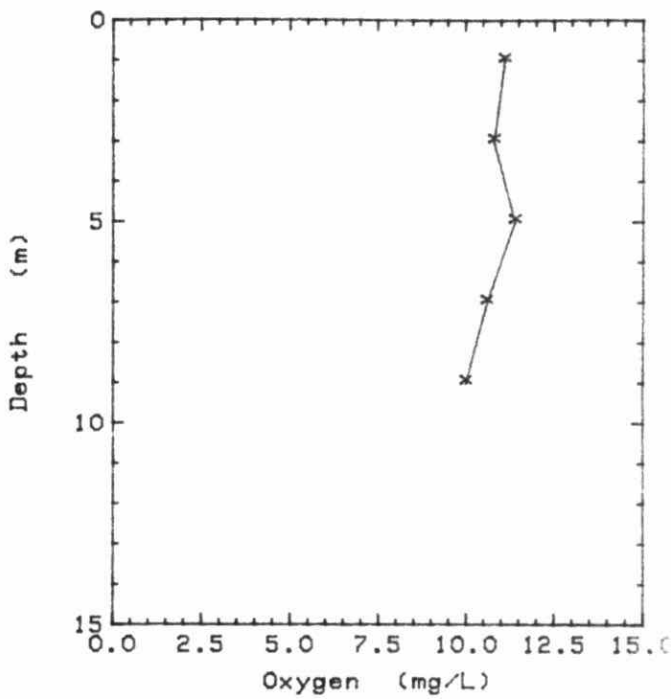



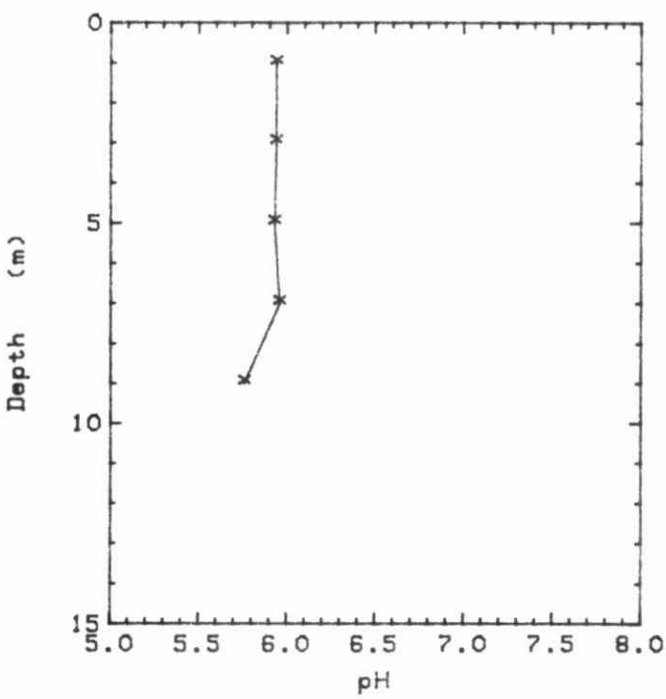



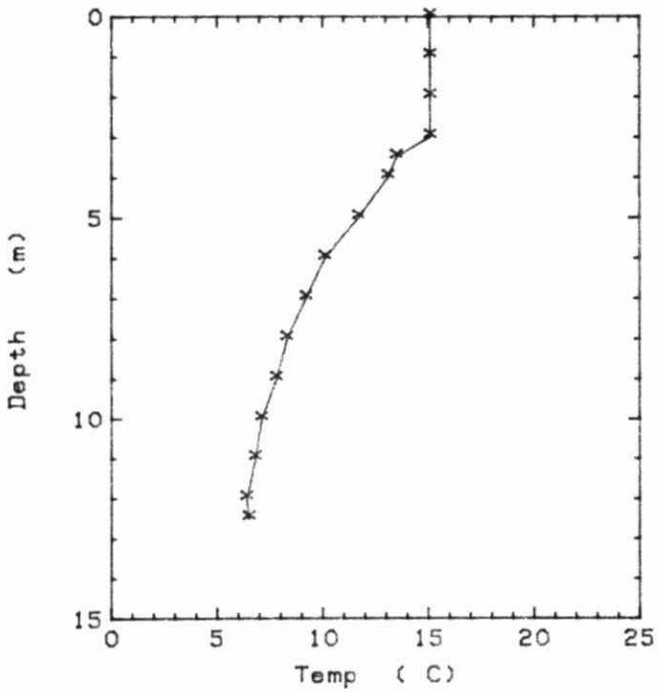
# LEECH 83.05.26

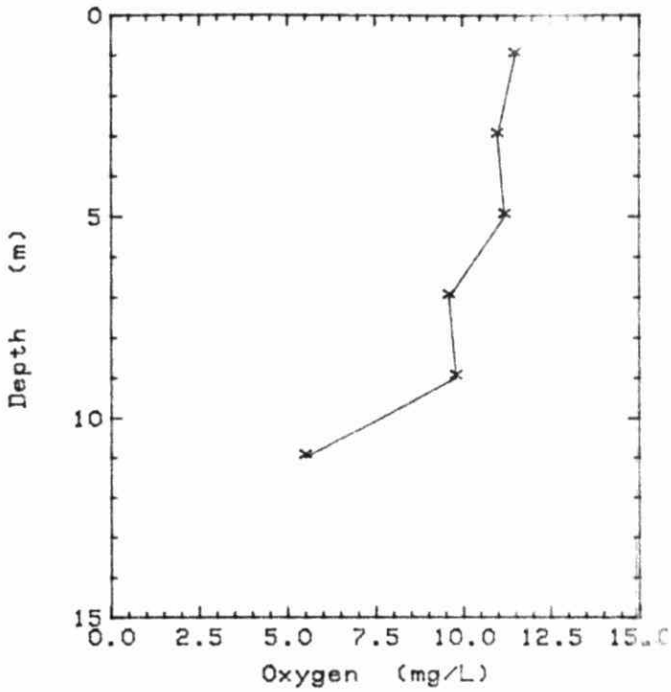


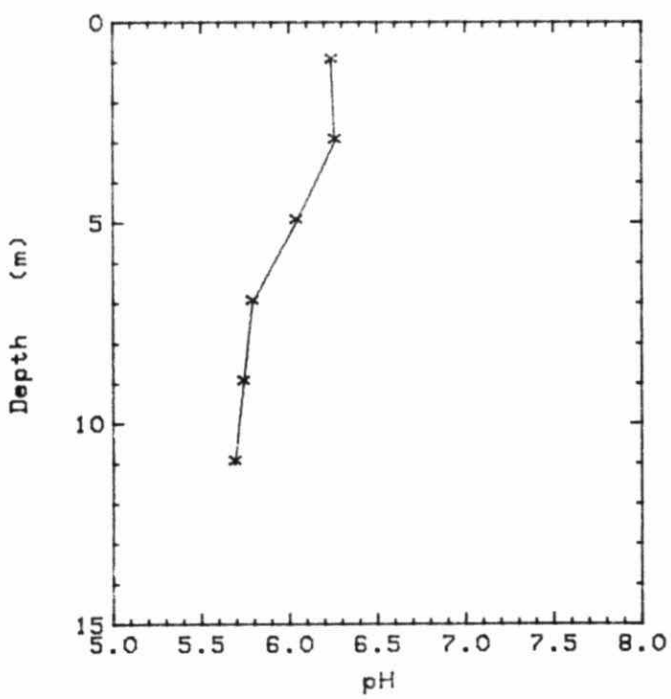



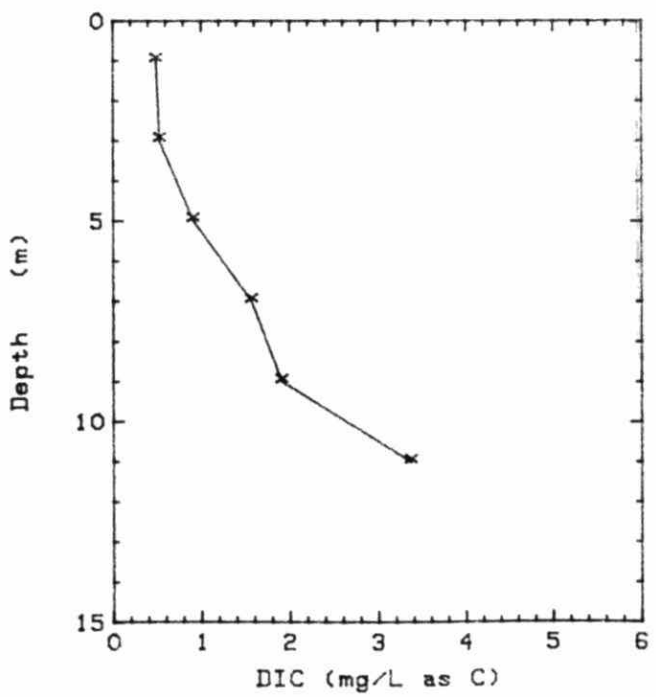



# LEECH 83.06.07

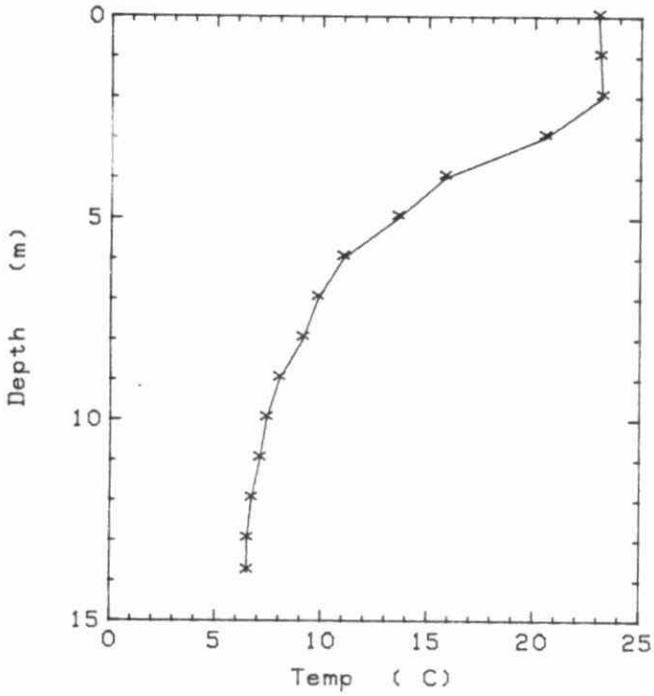


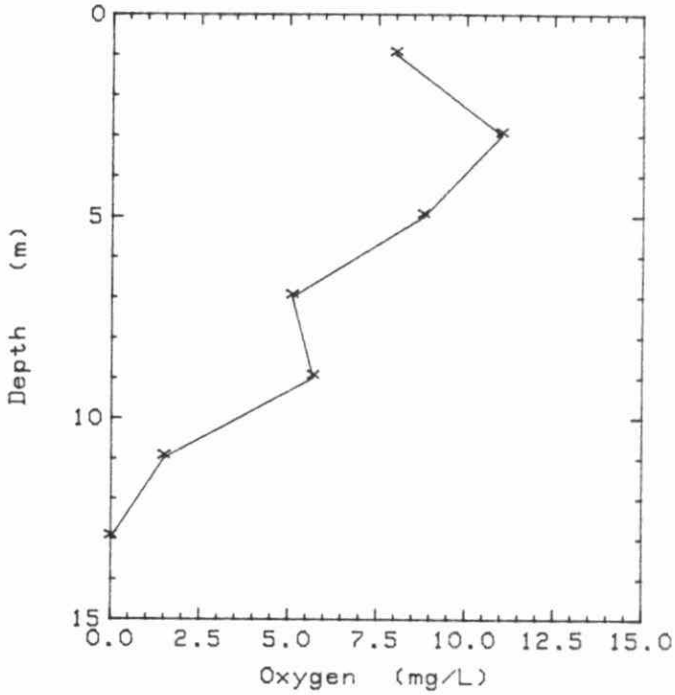



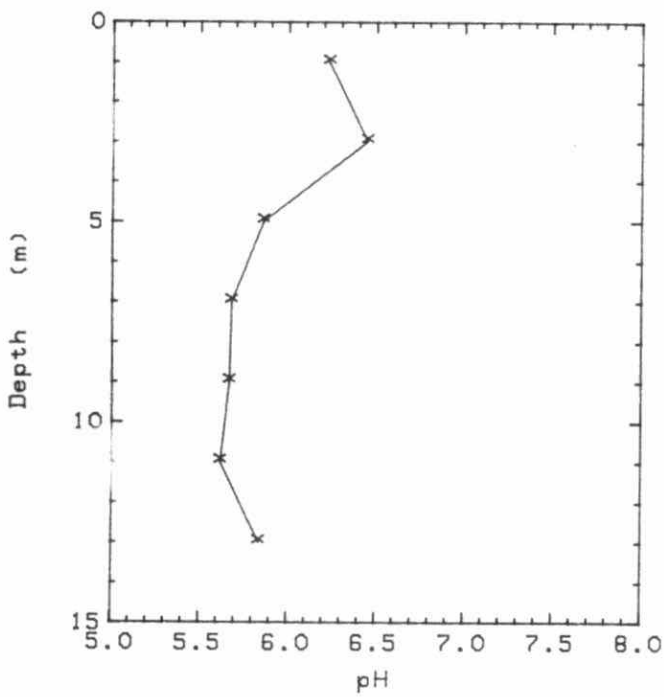



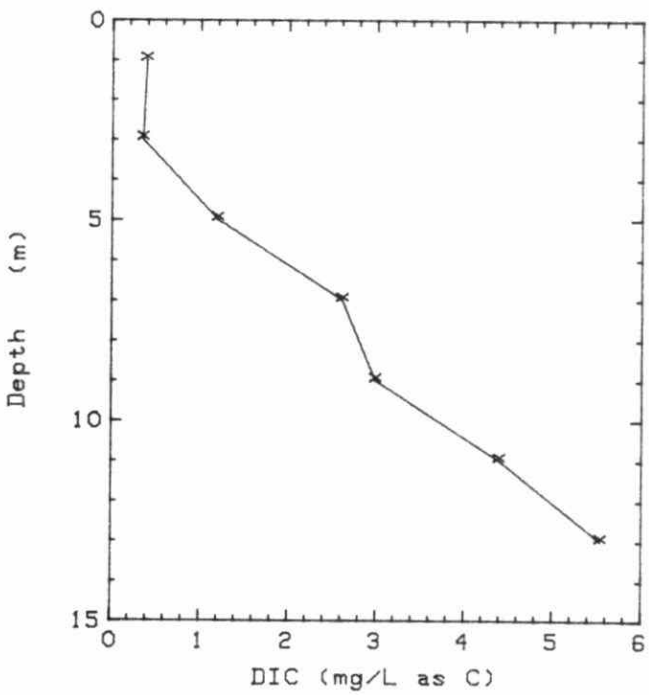



# LEECH 83.06.27

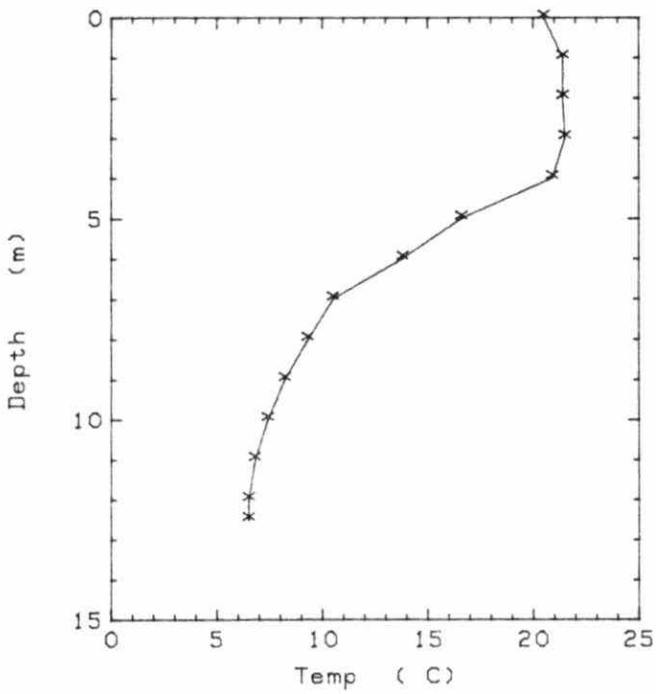


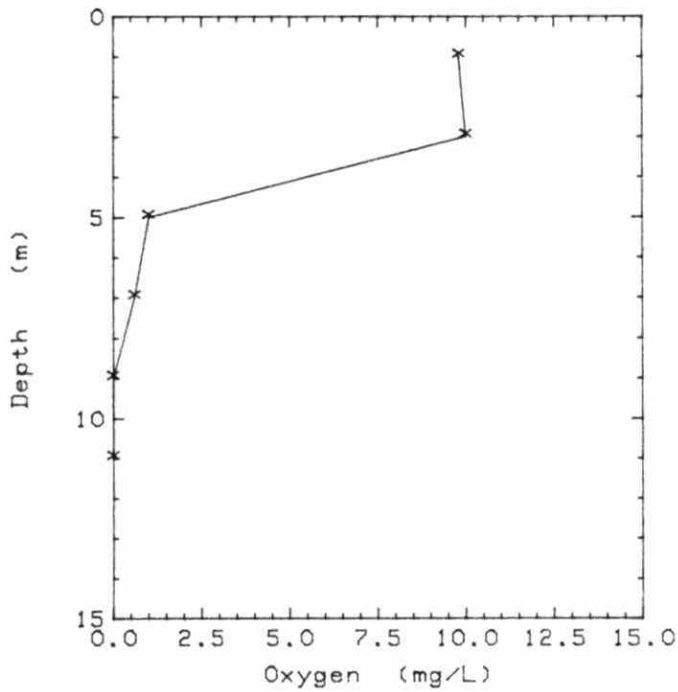



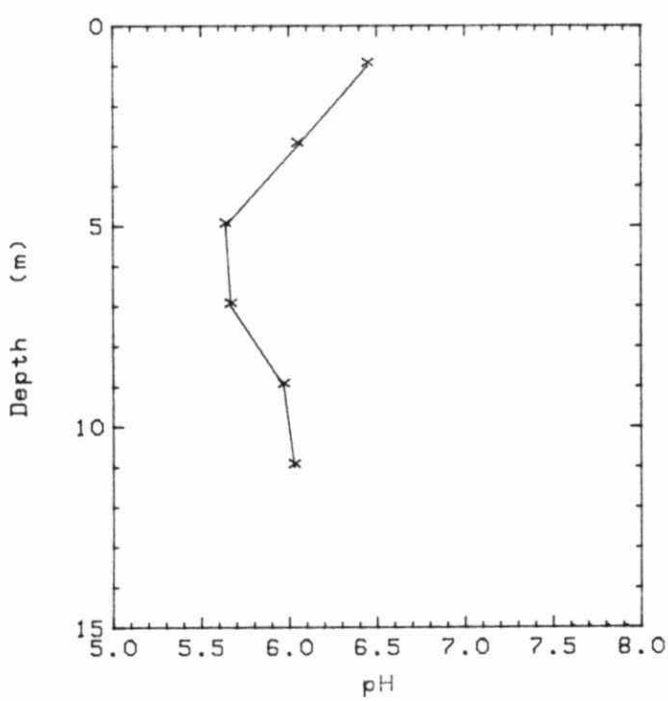



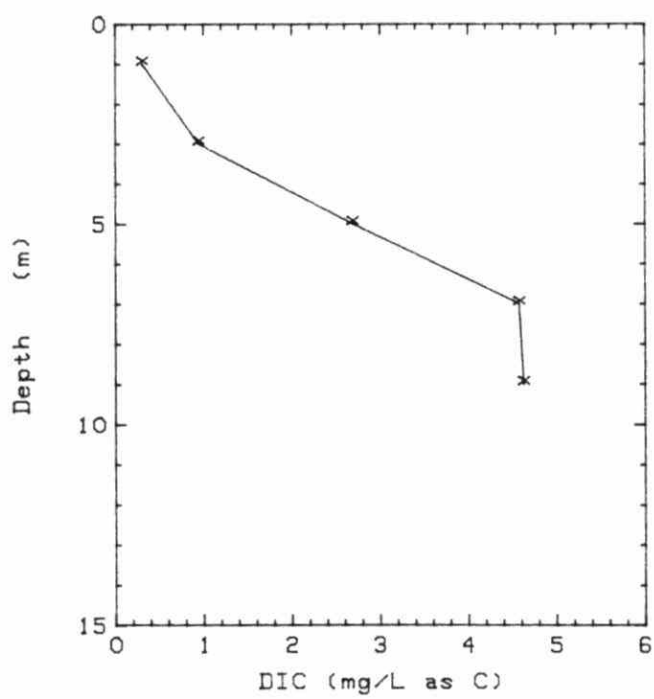



# LEECH 83.08.23

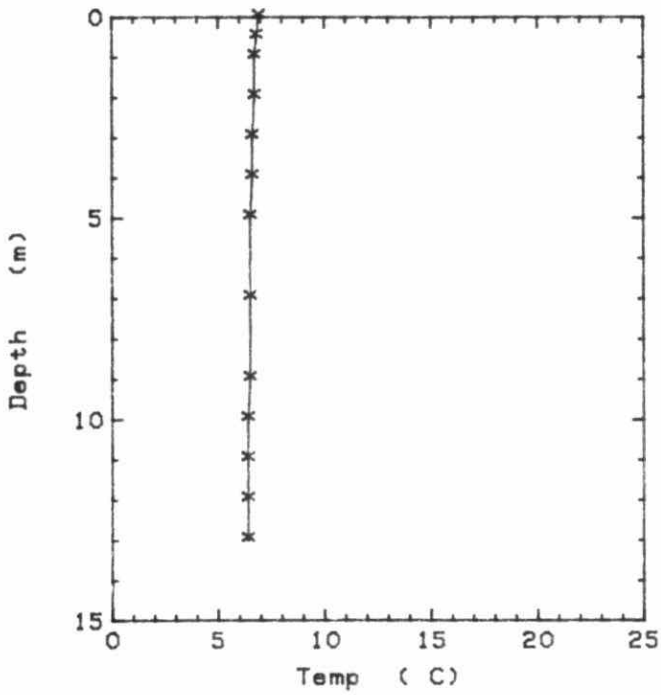


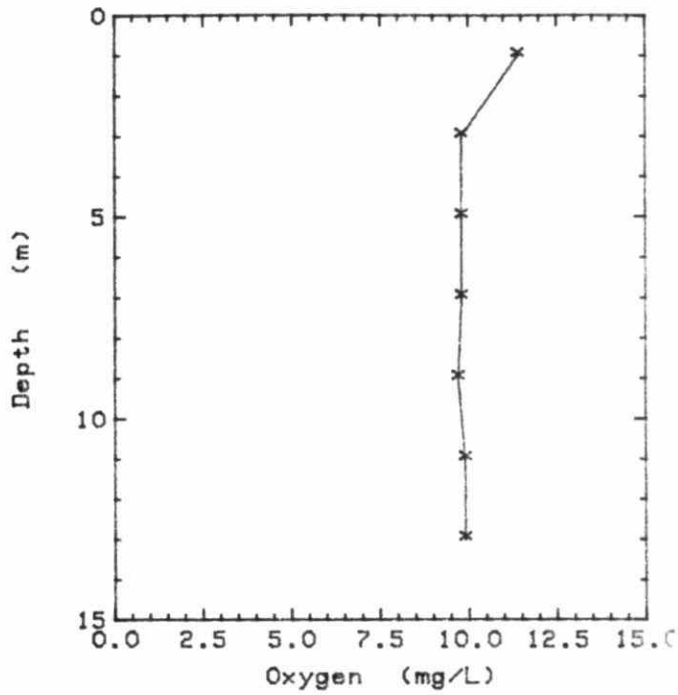



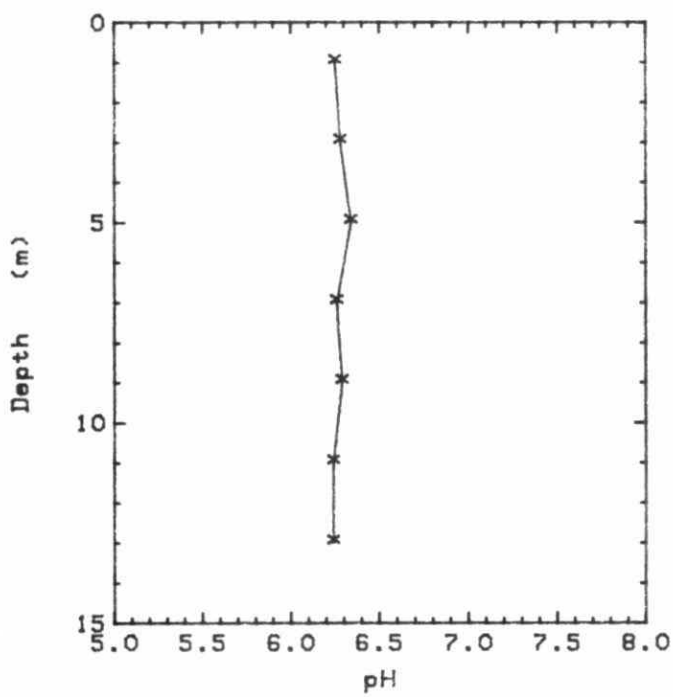



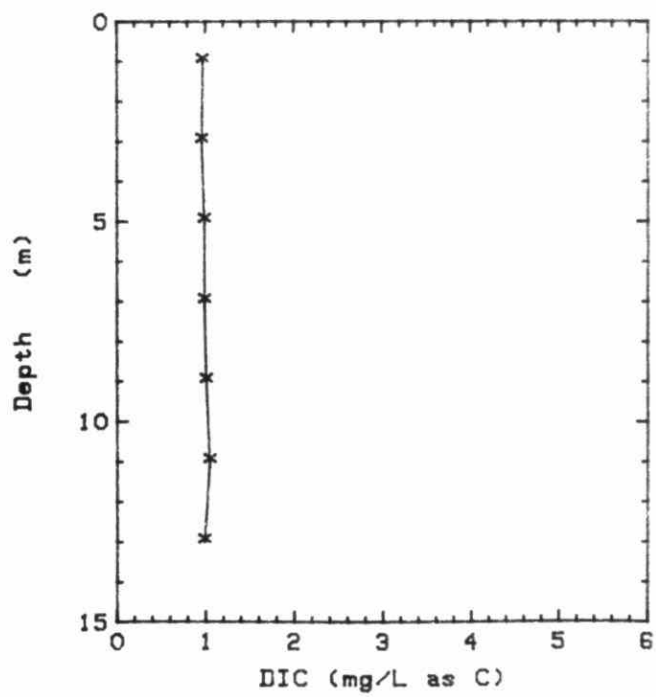



# LEECH 83.11.07

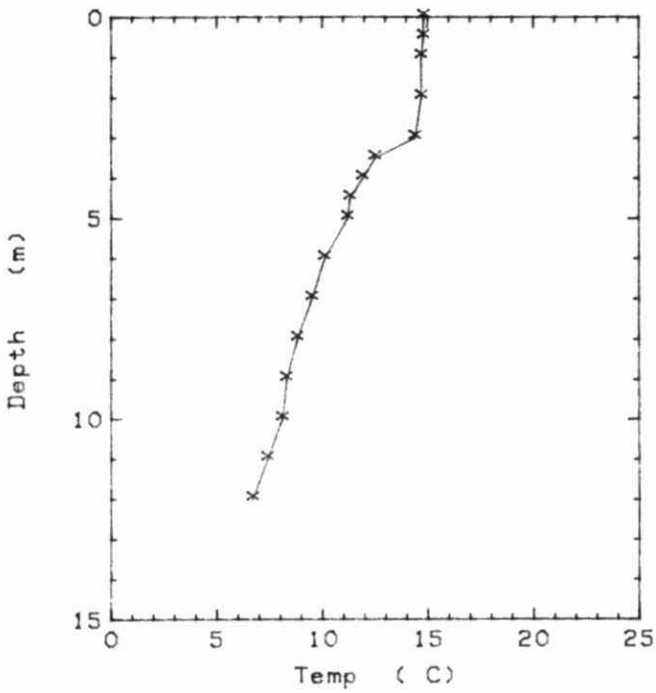


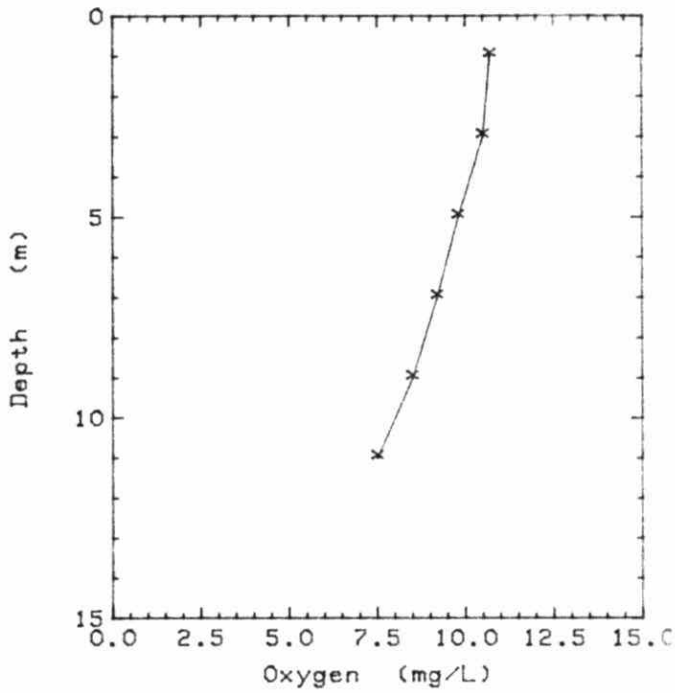



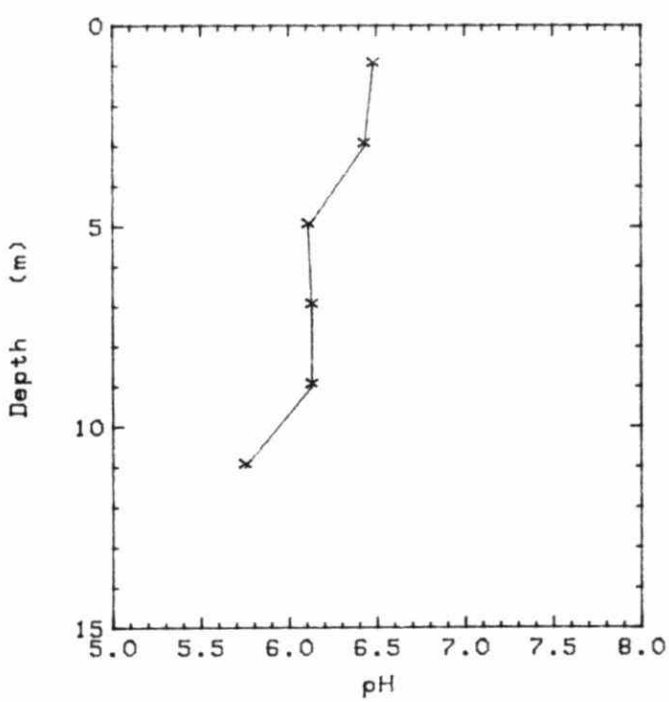



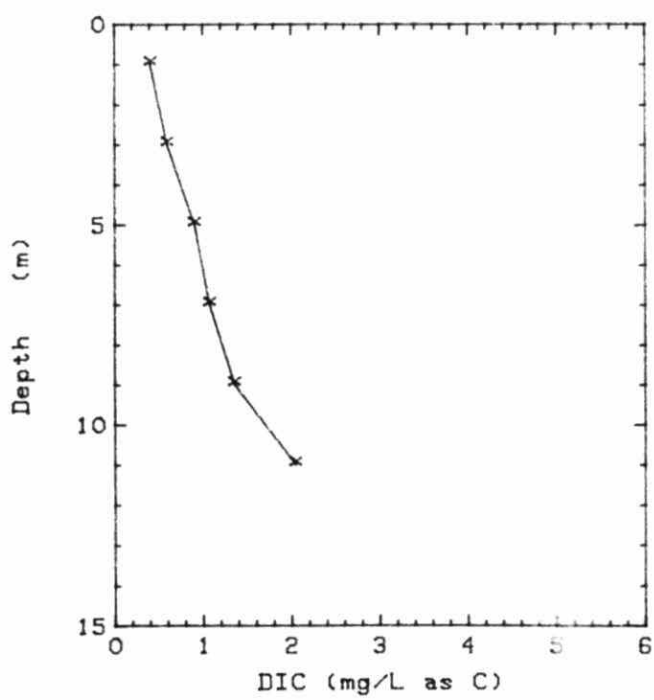



# LEECH 84.05.24

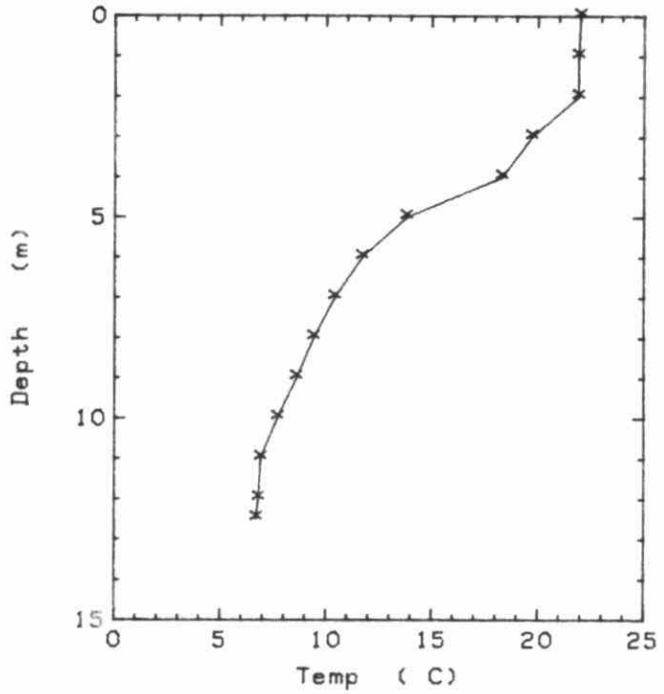


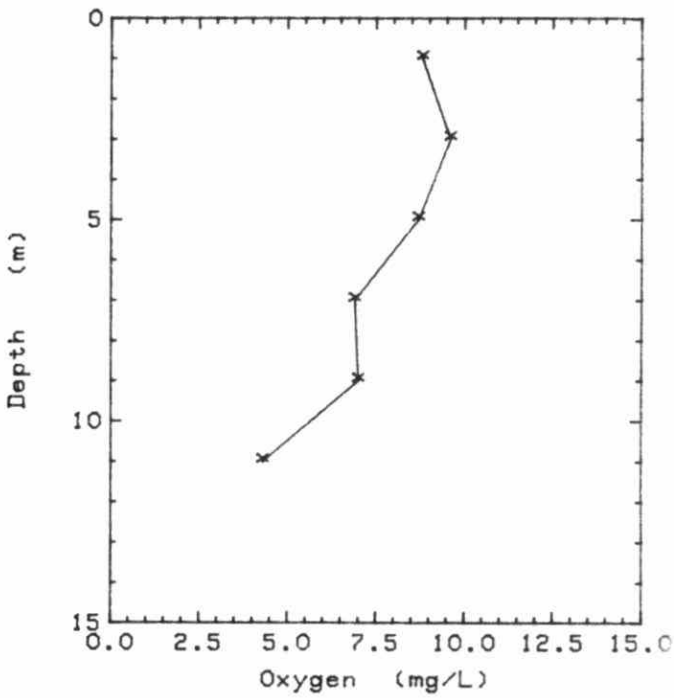



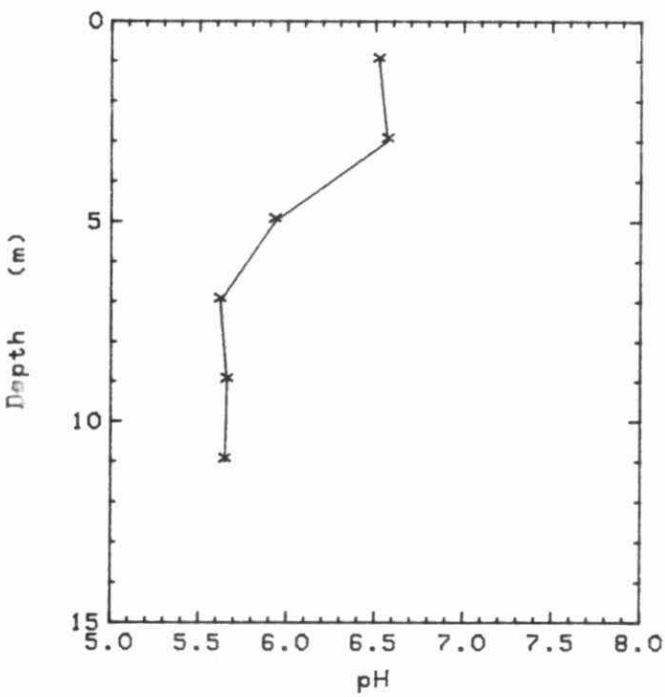



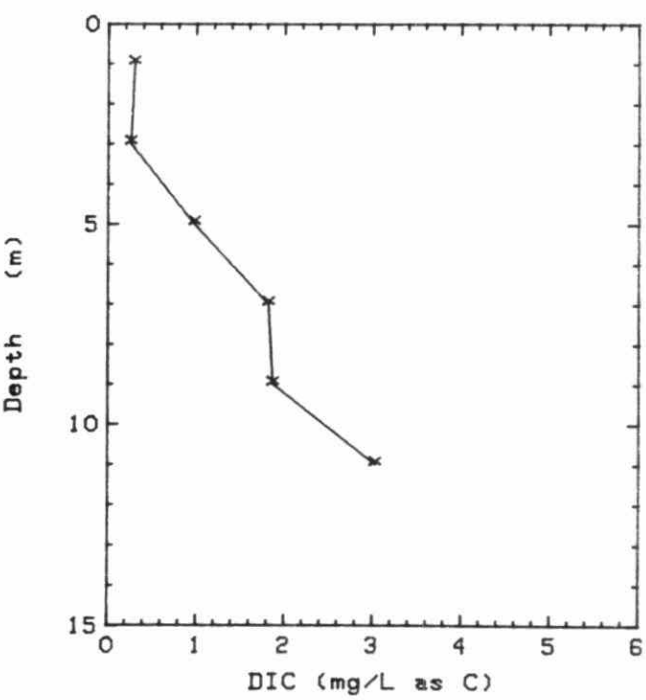



# LEECH 84.07.05

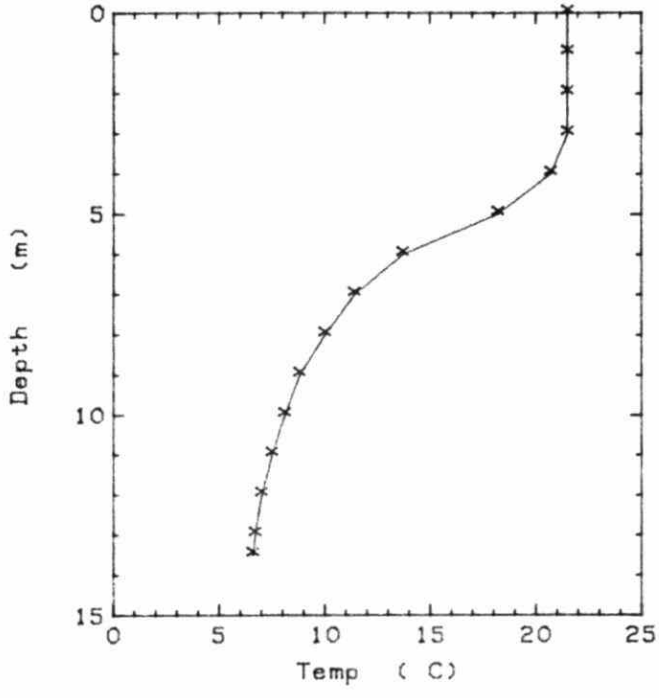


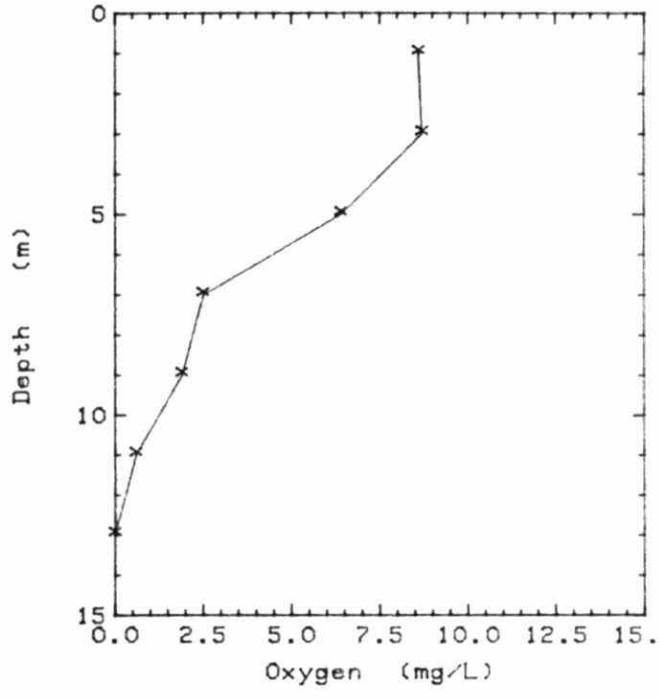



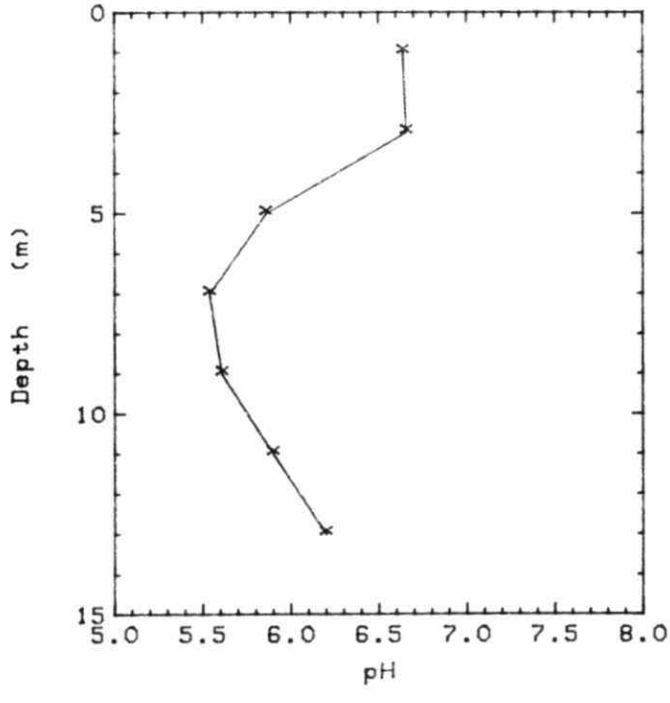



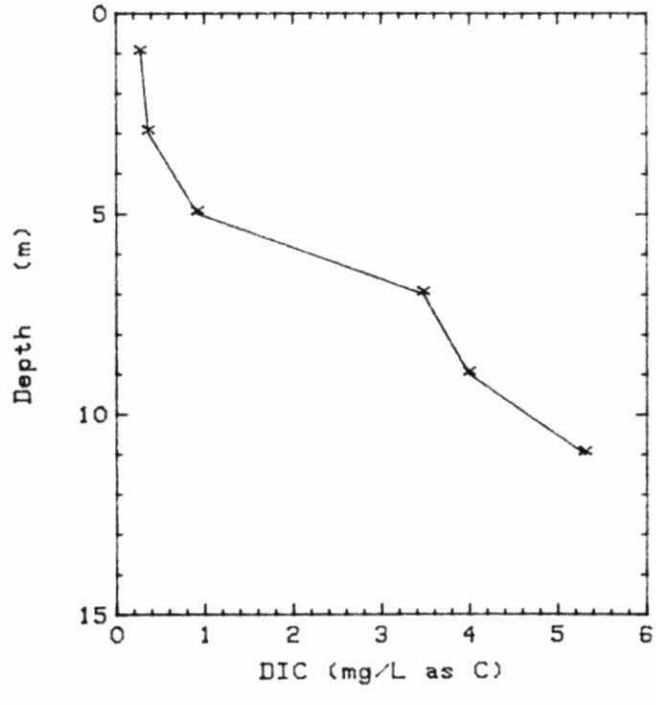



# LEECH 84.08.30

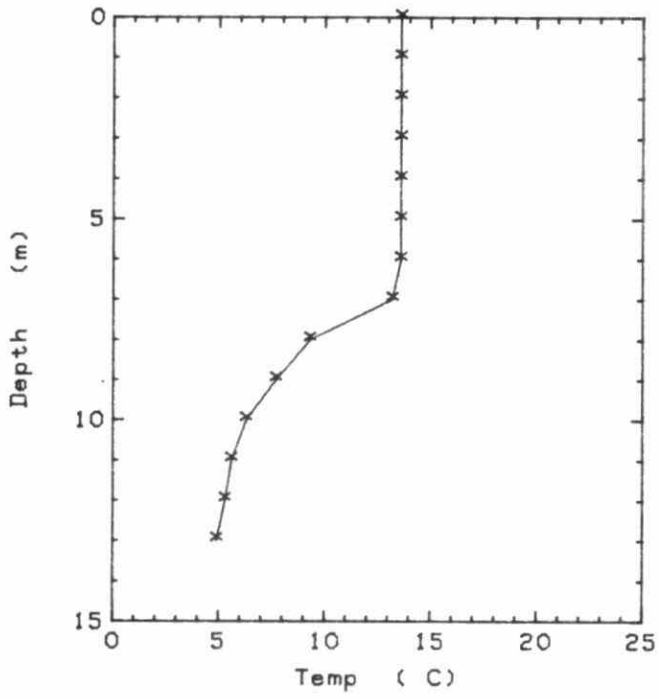


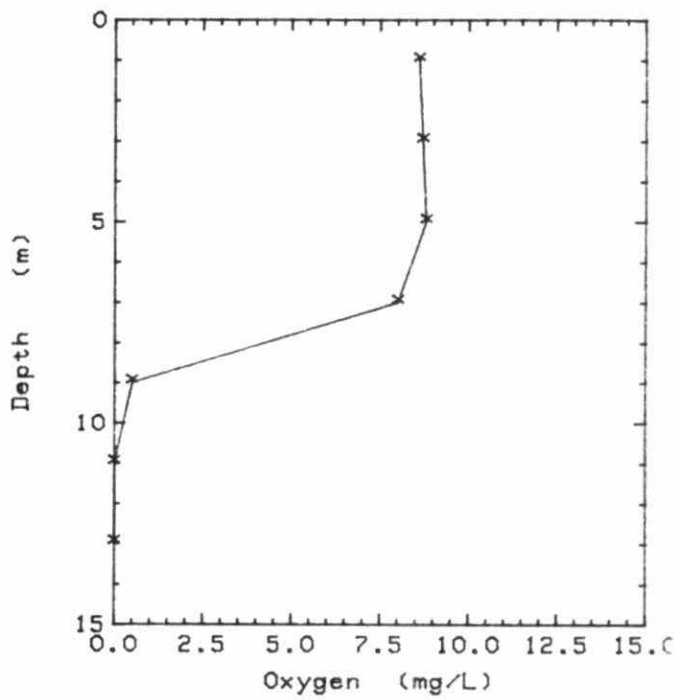



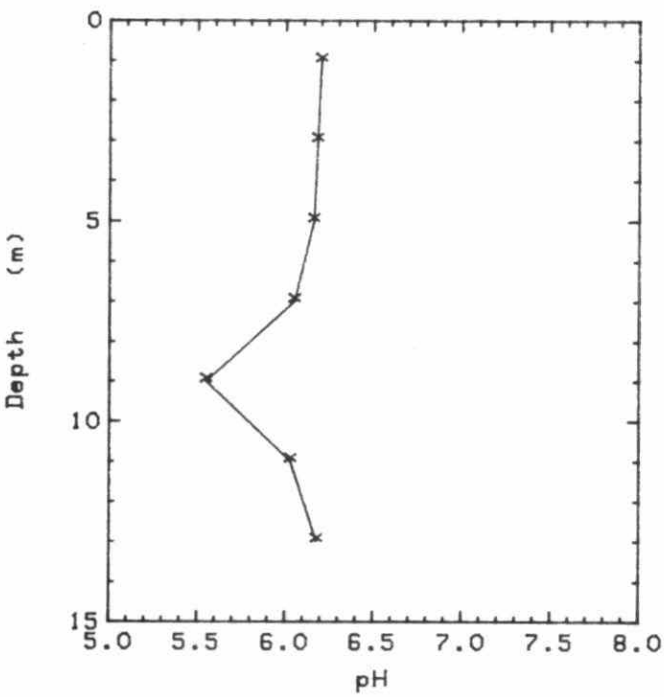



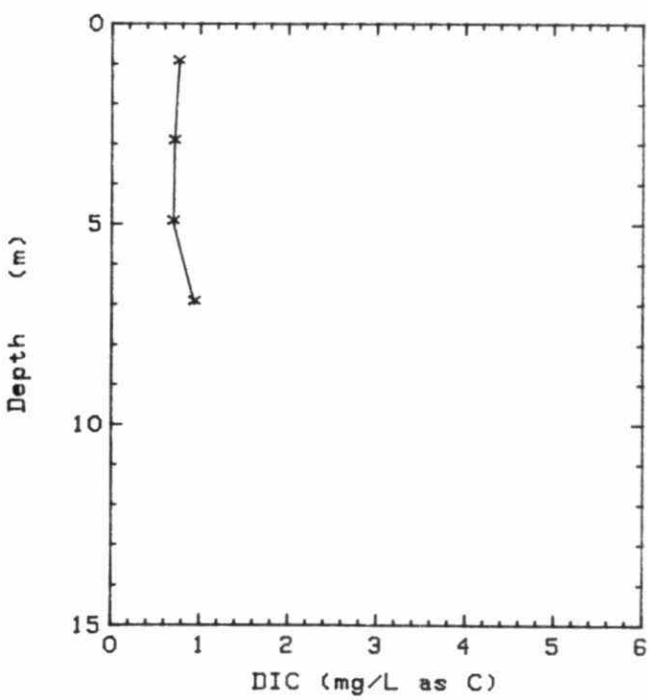



# LEECH 84.10.01



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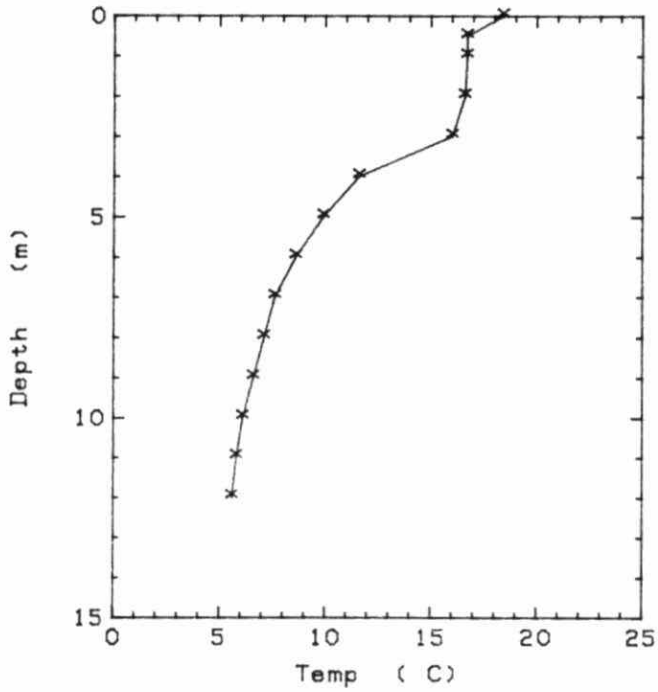
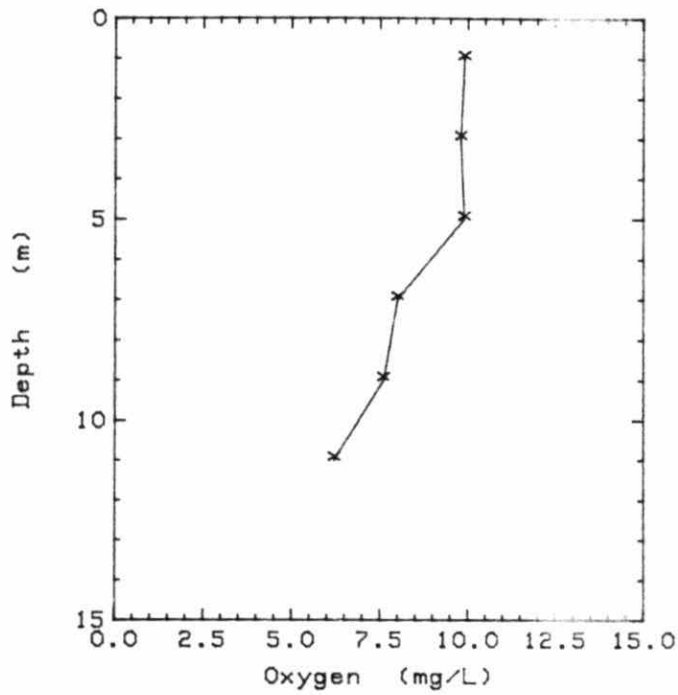
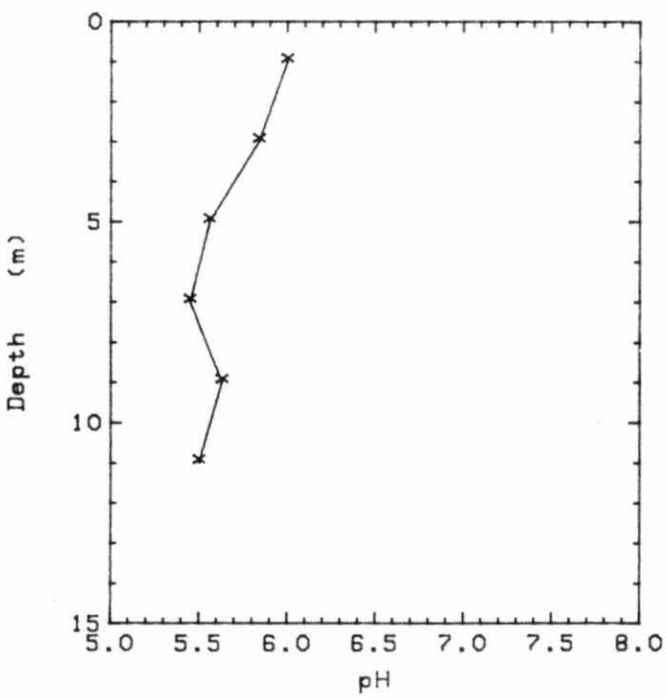
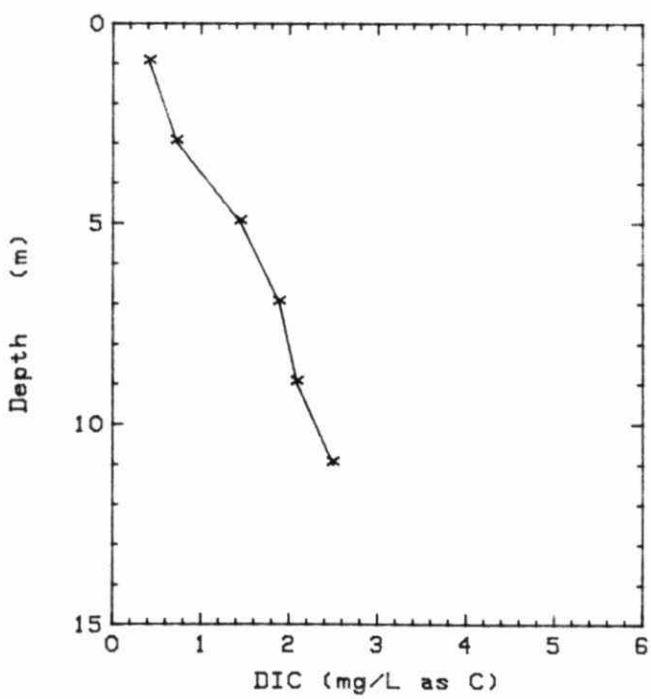
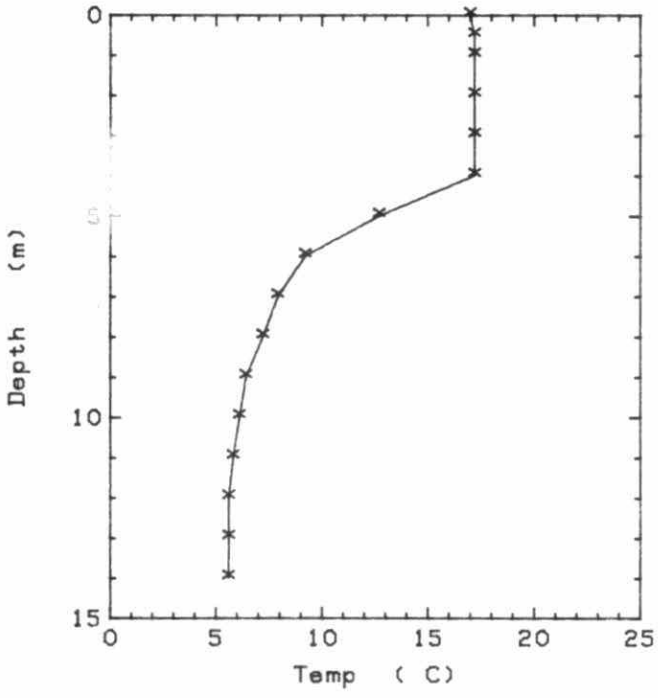


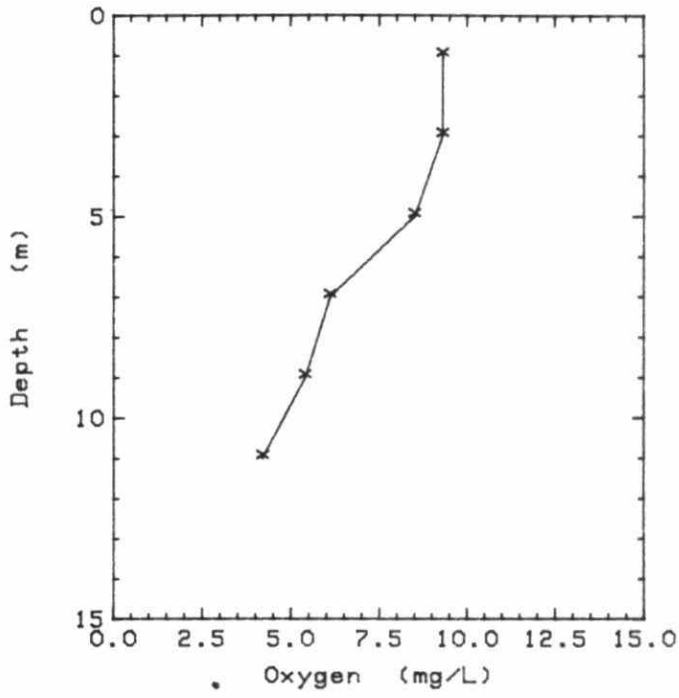



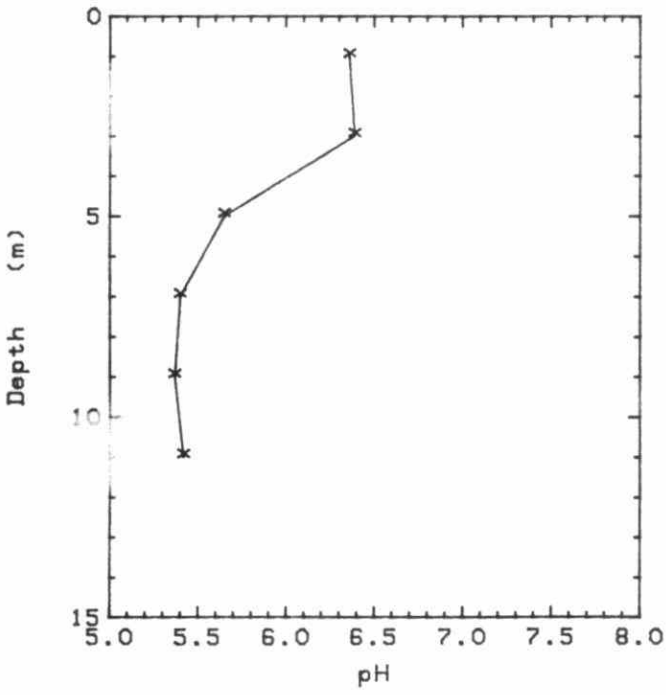



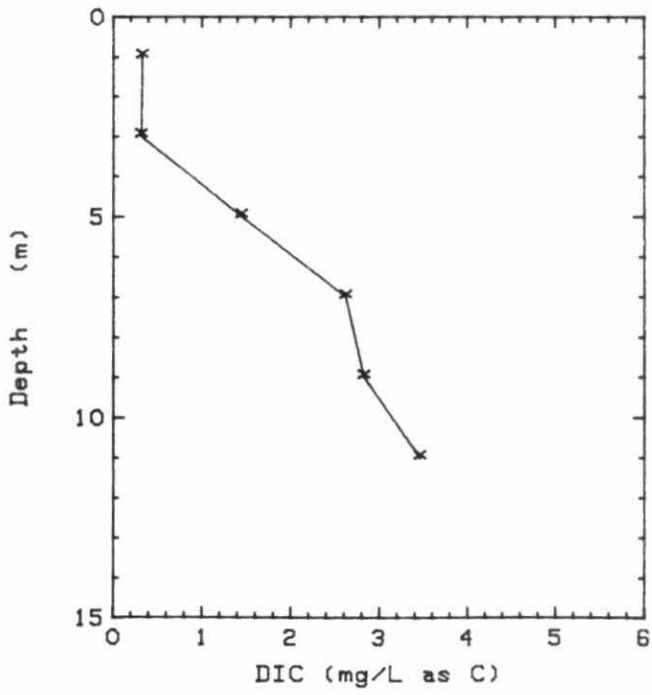



# LEECH 85.06.13

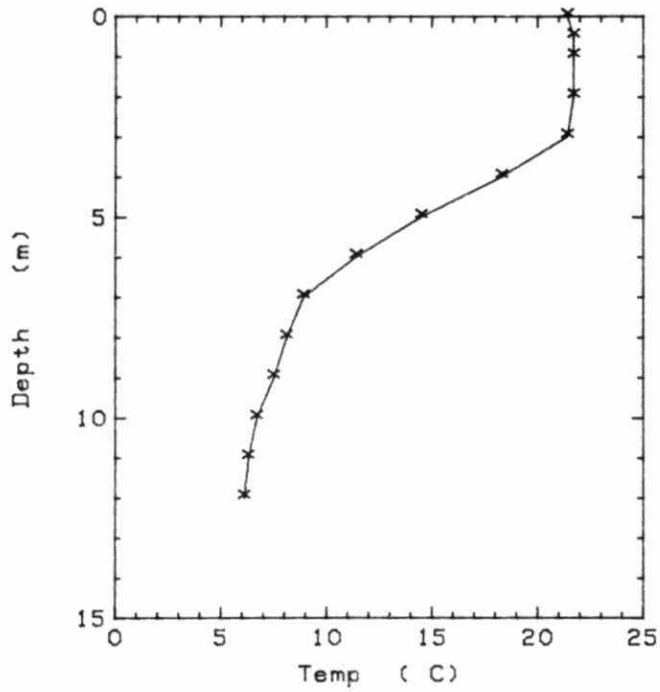


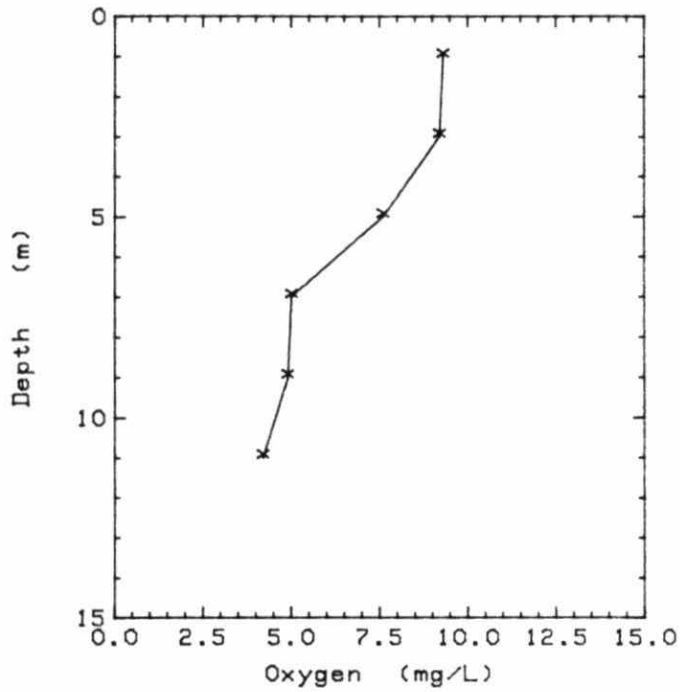



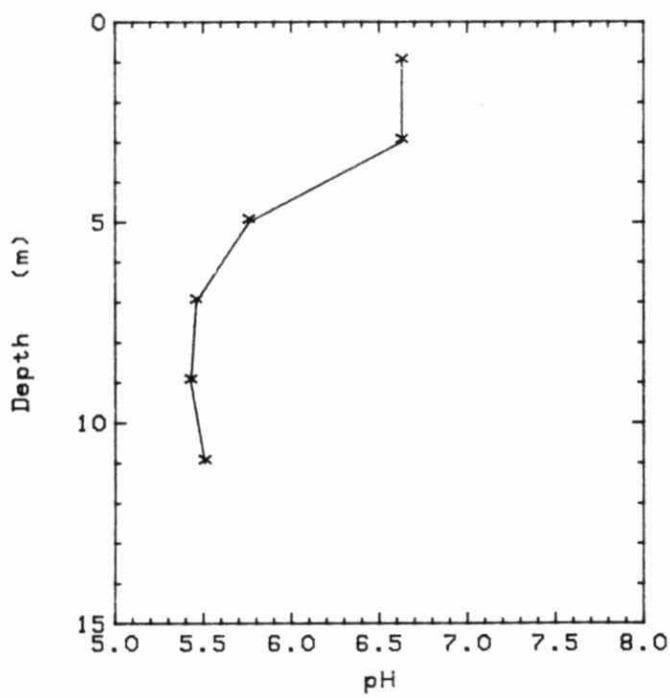



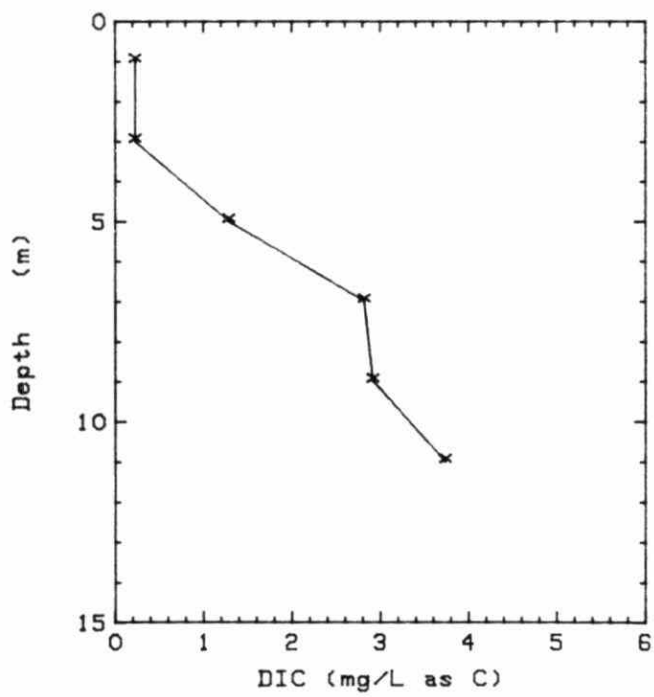



# LEECH 85.07.11

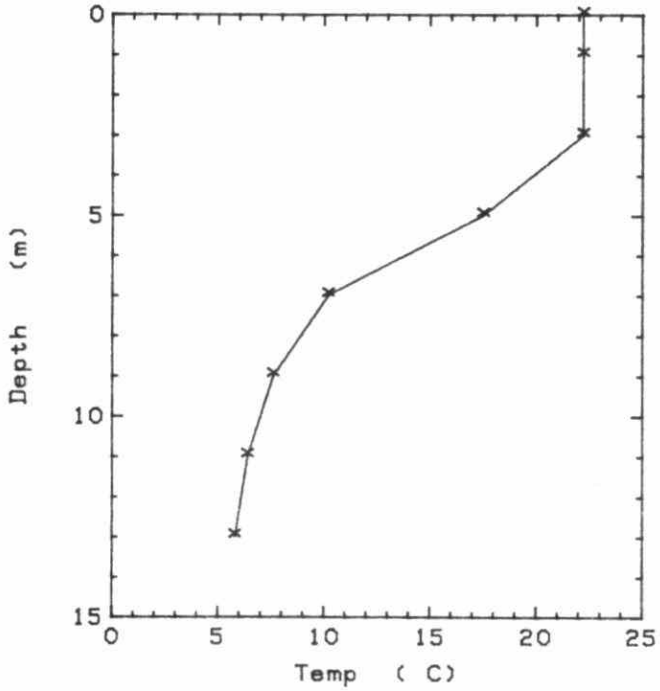


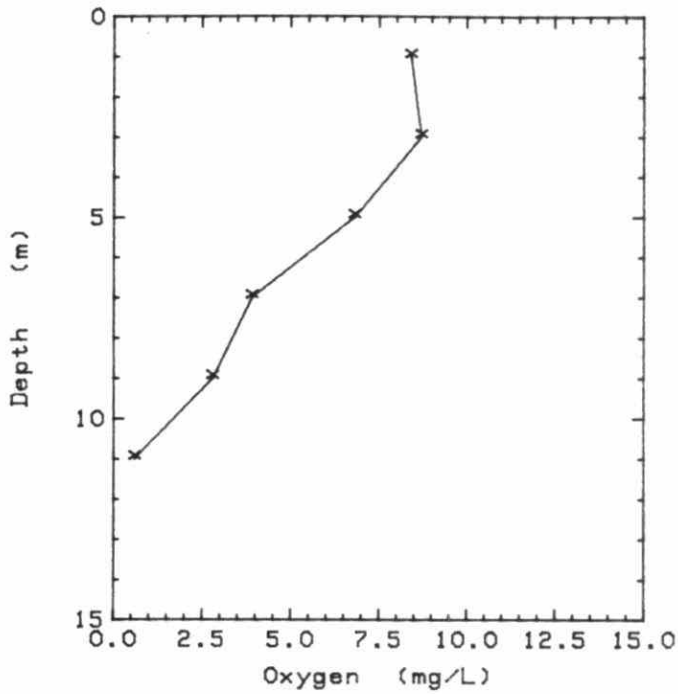



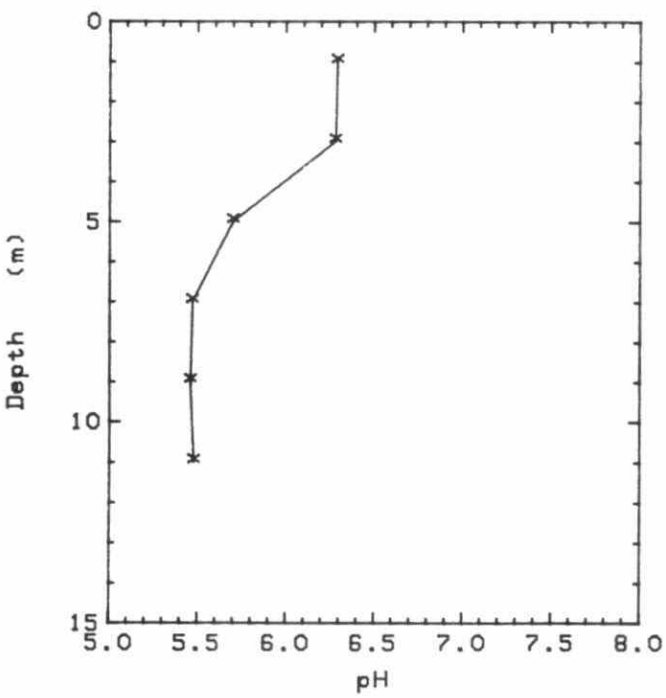



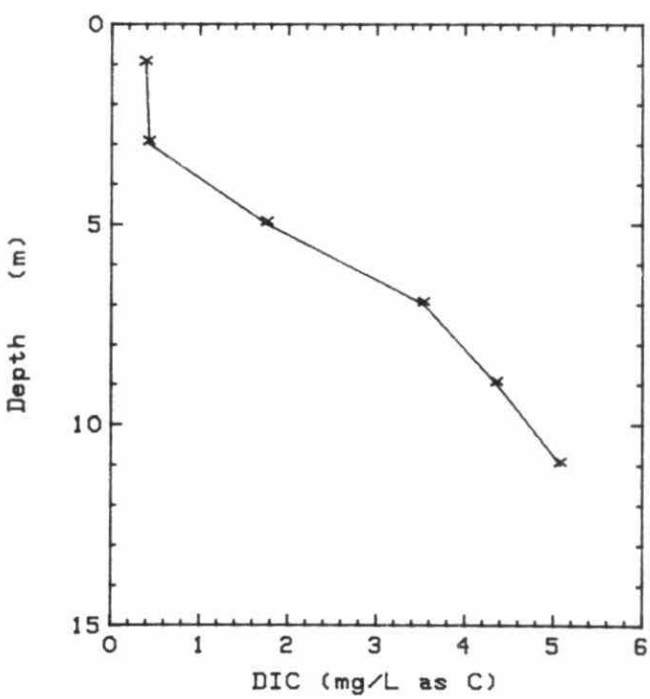



# LEECH 85.08.08

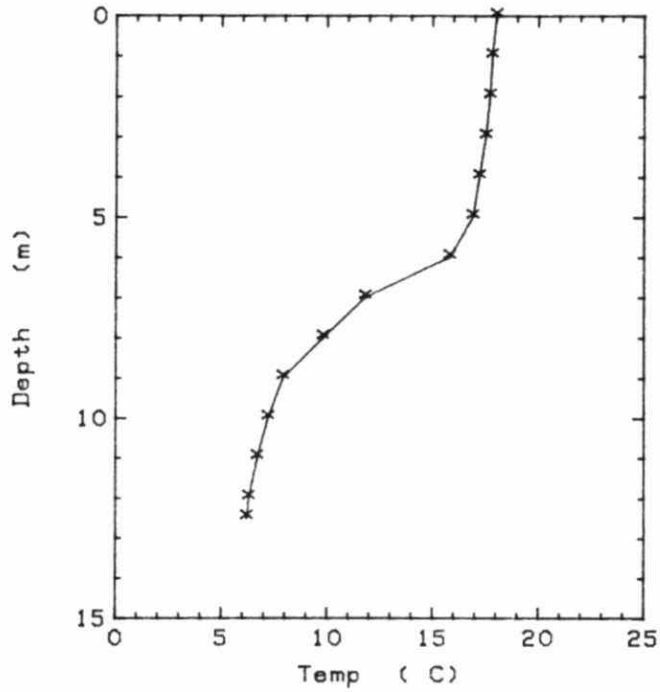


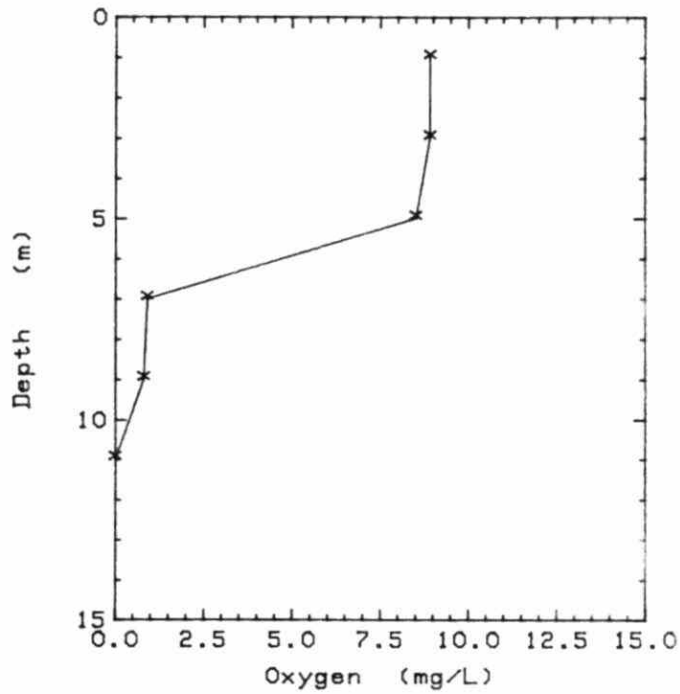



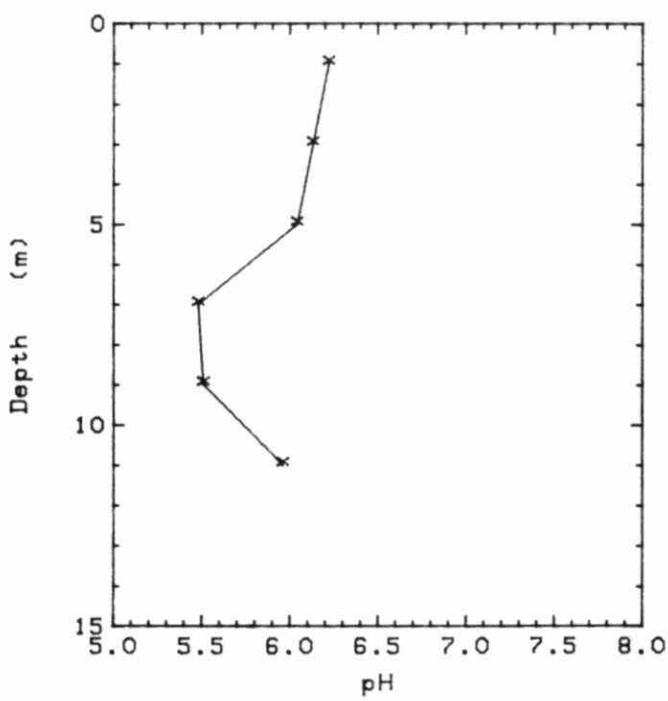



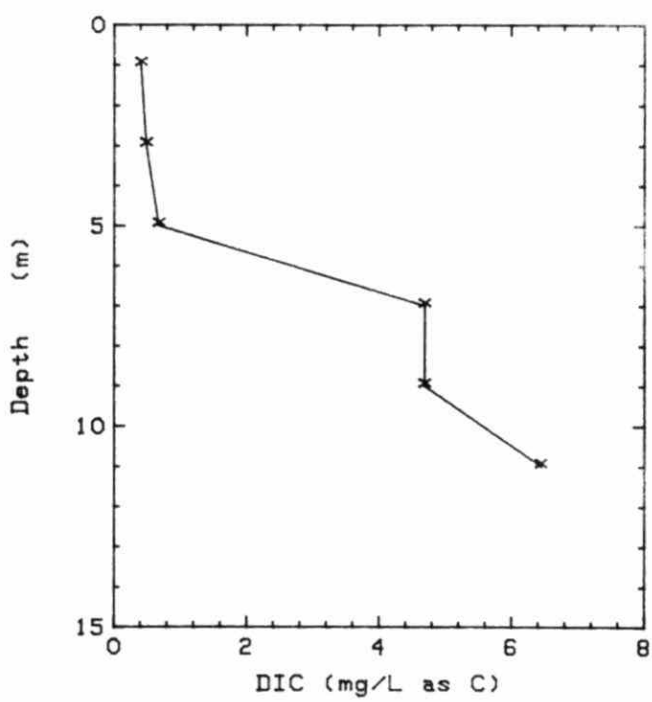



# LEECH 85.09.19

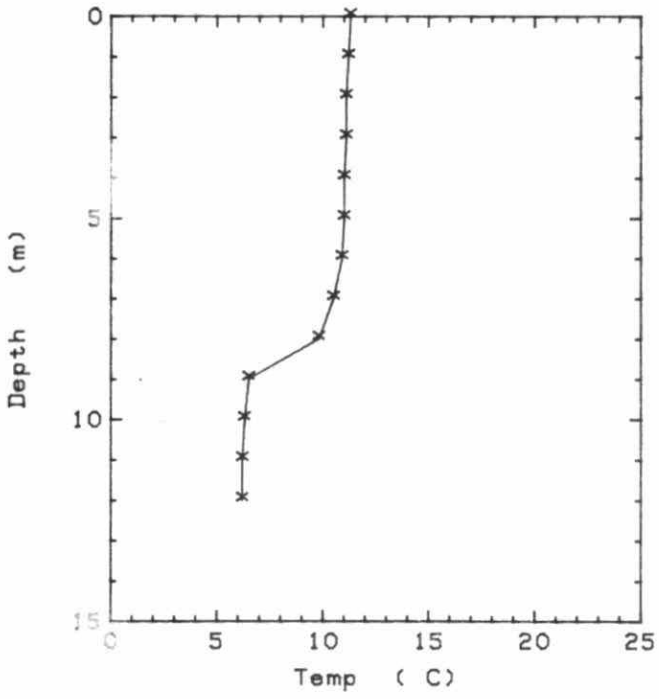


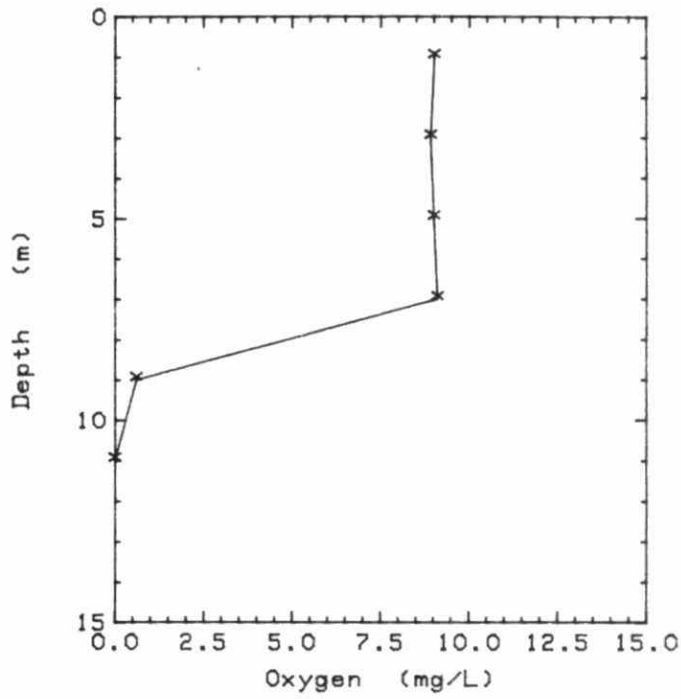



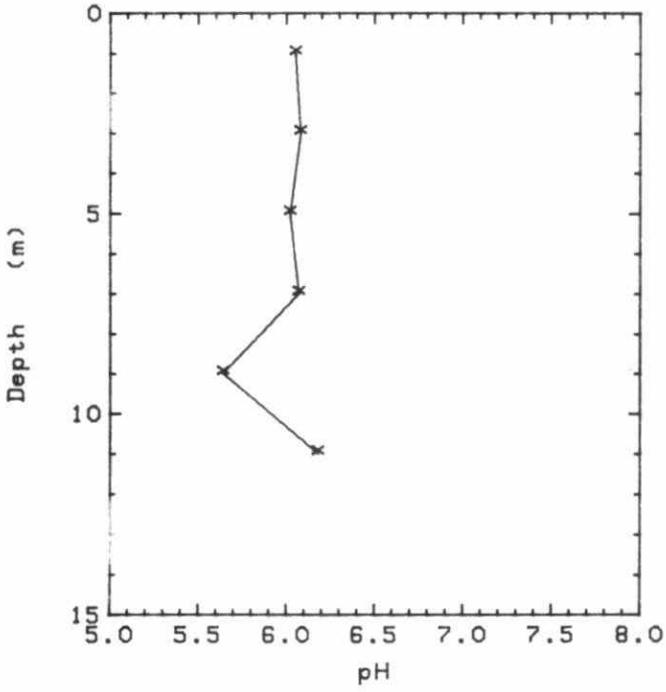



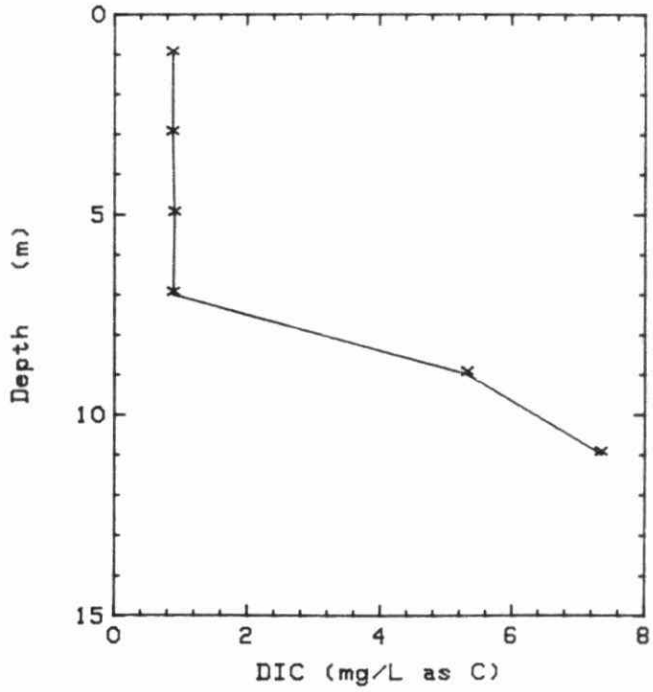



# LEECH 85.10.17

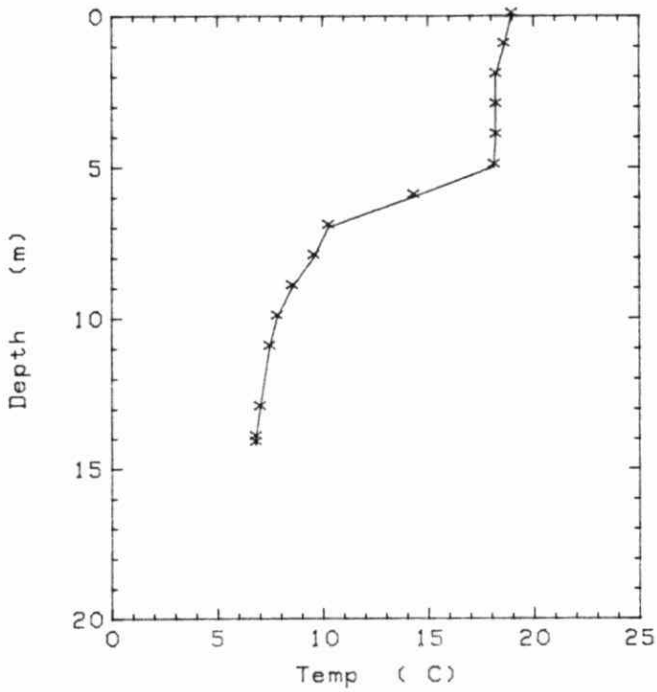


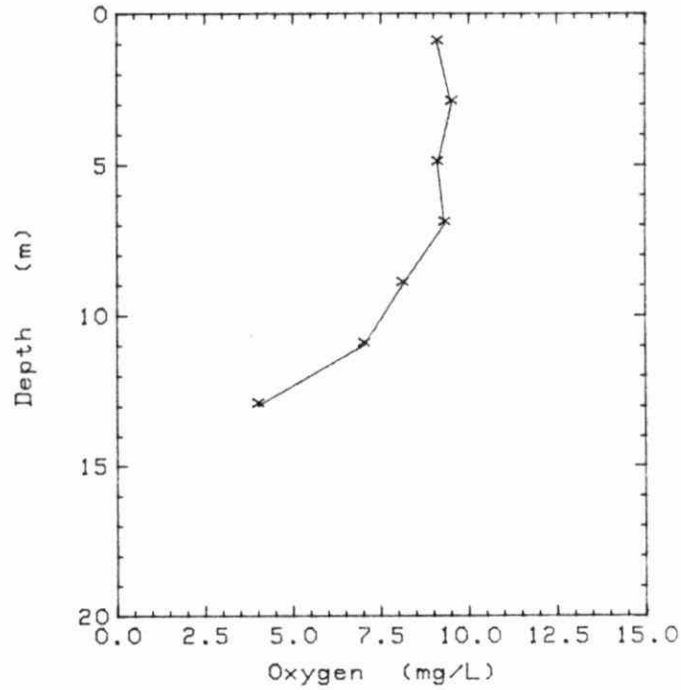



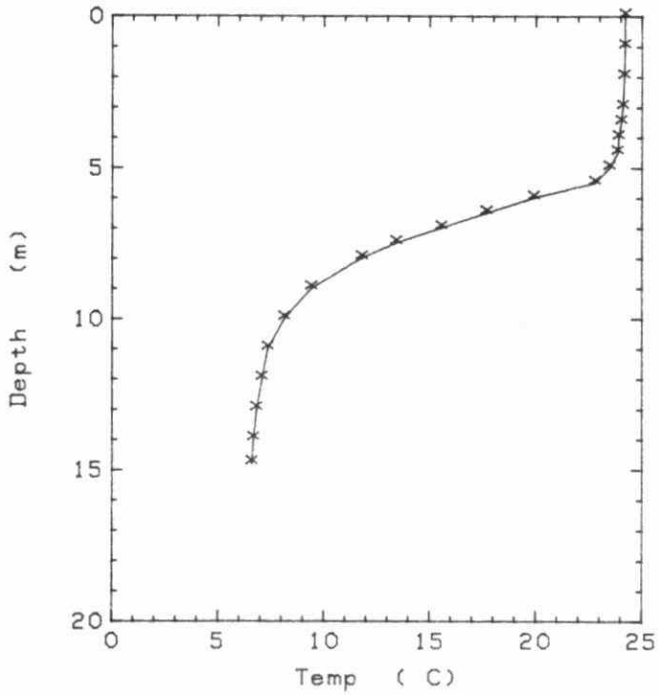



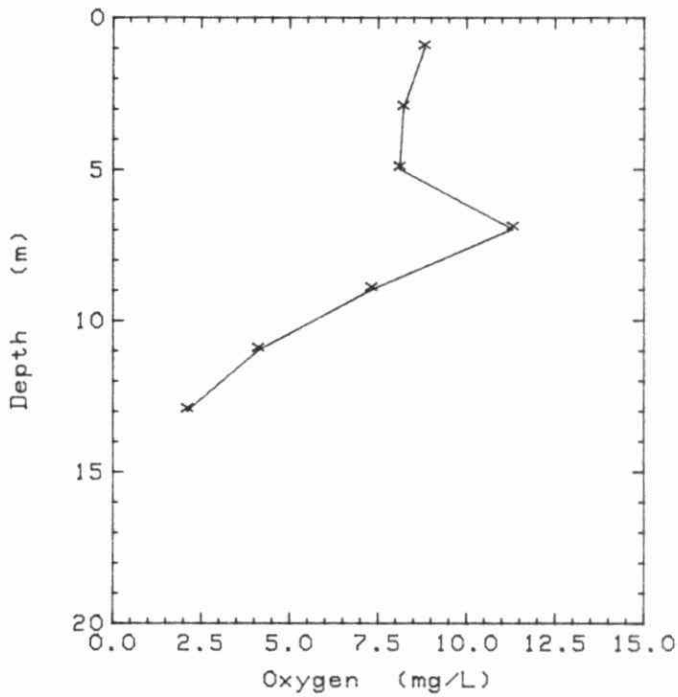
# LEONARD 79.06.25

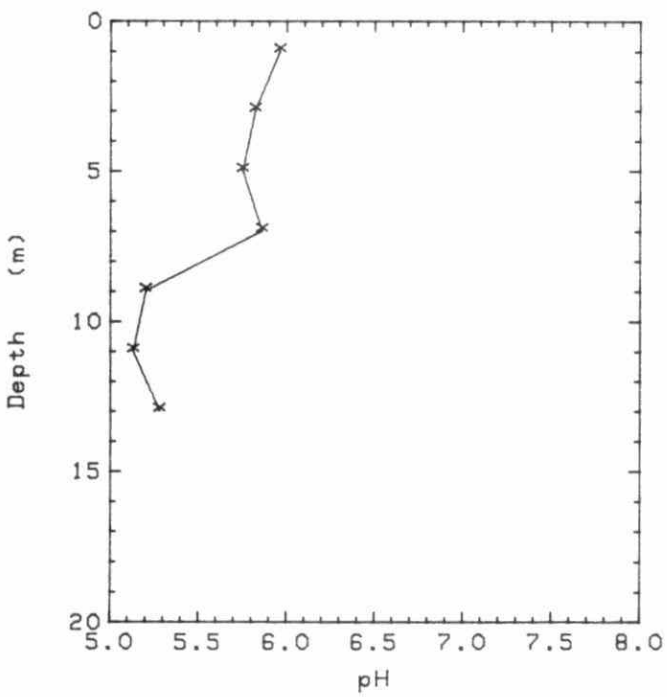


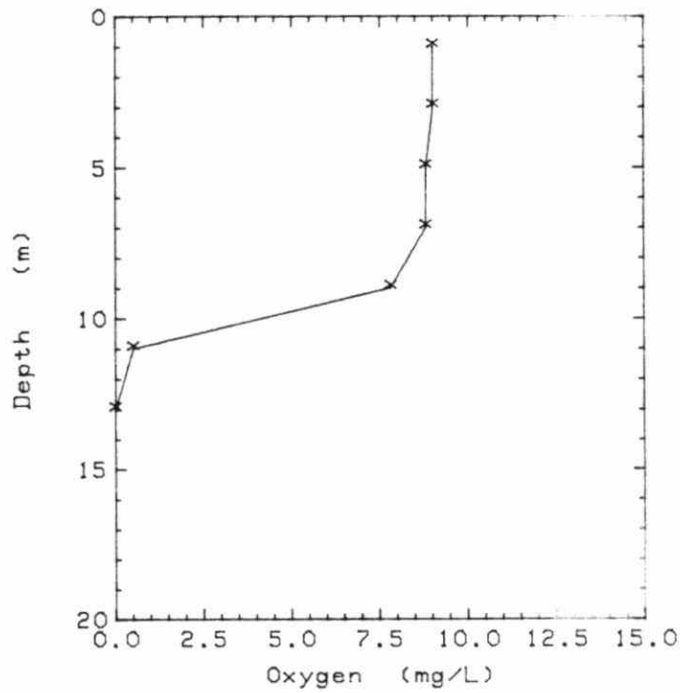
# LEONARD 79.07.30

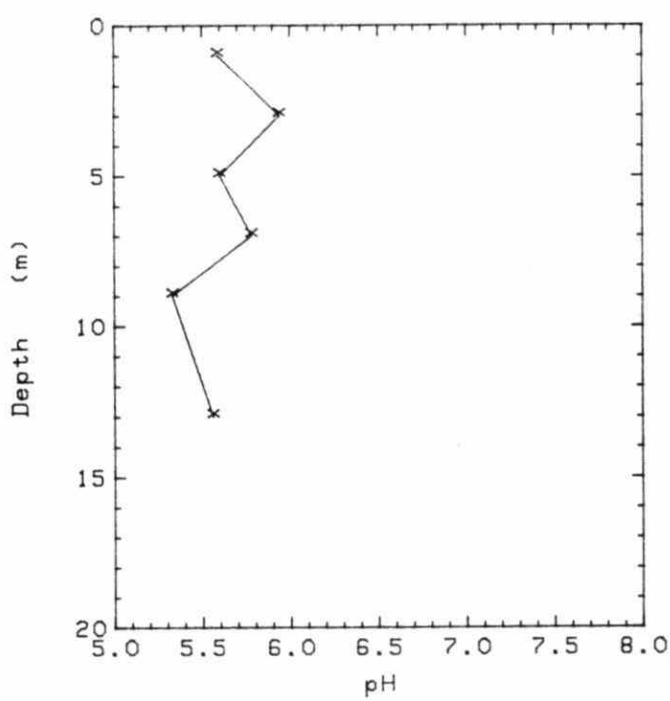


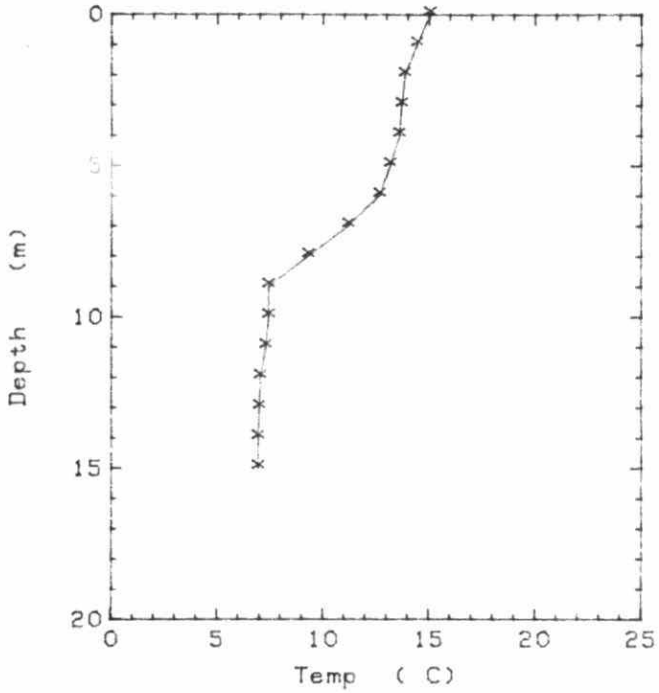



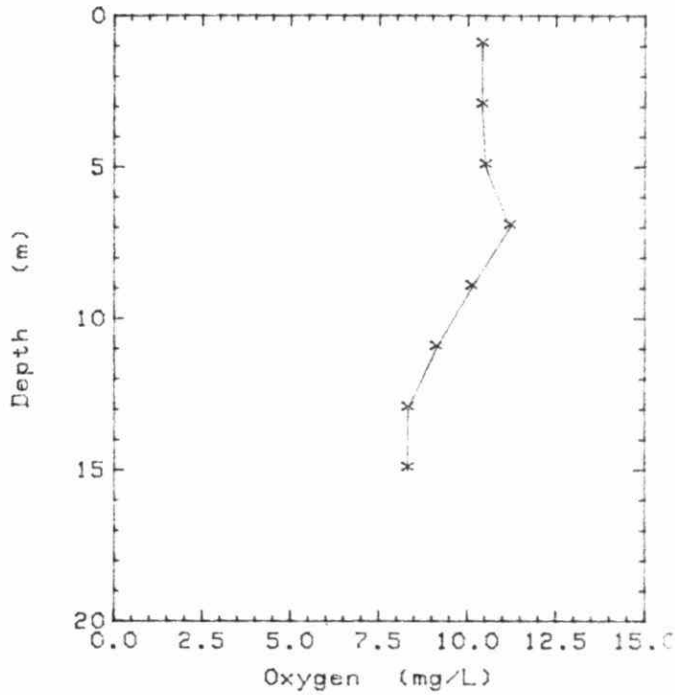
# LEONARD 79.10.01

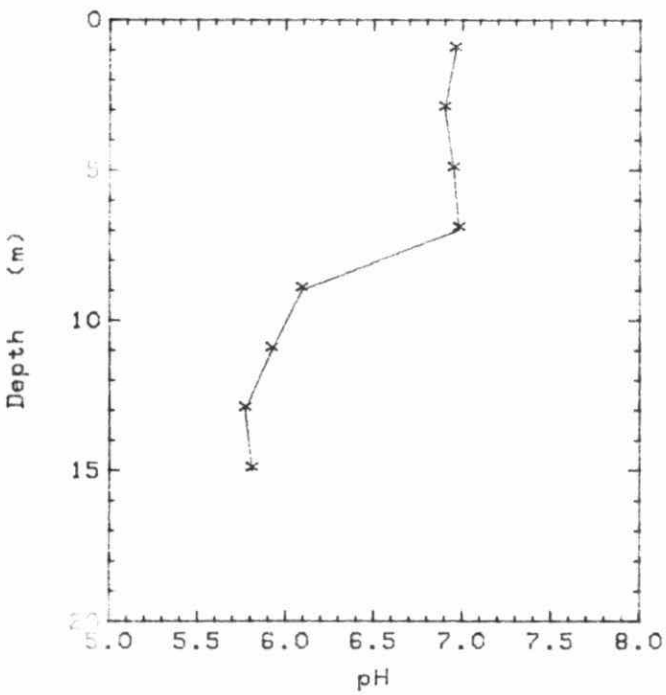


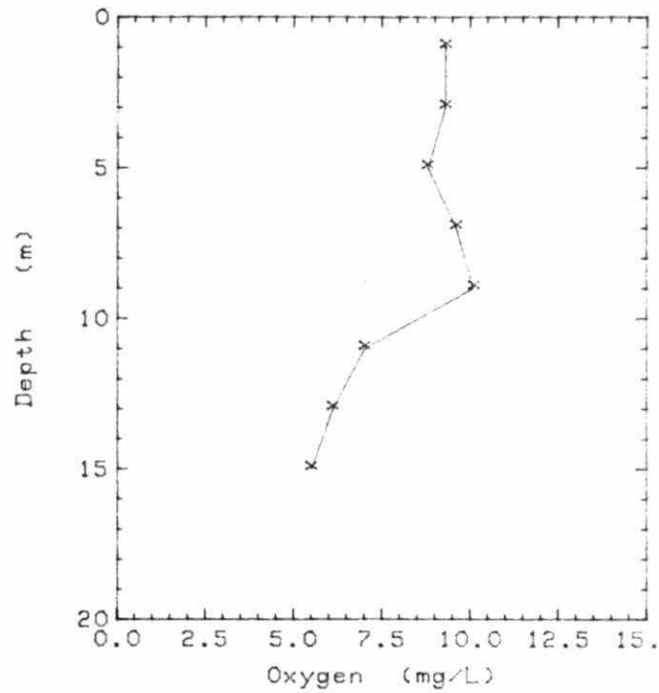
# LEONARD 80.05.20

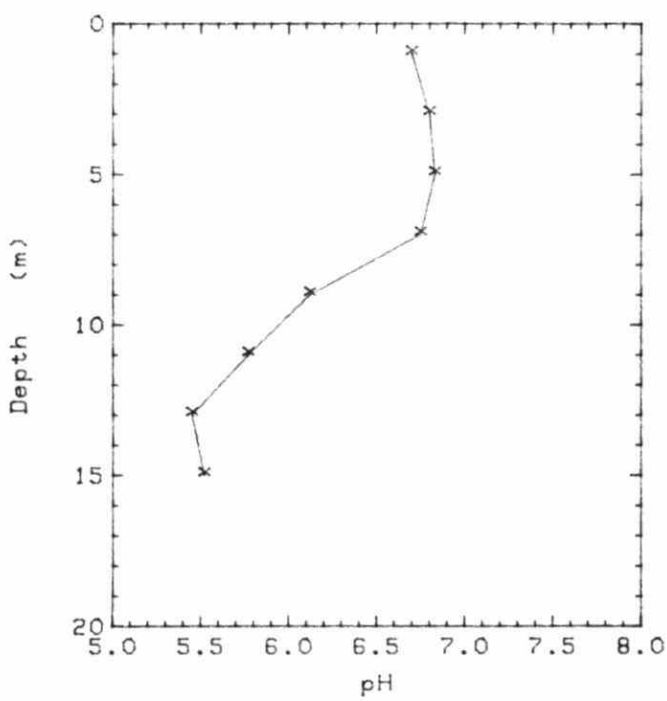


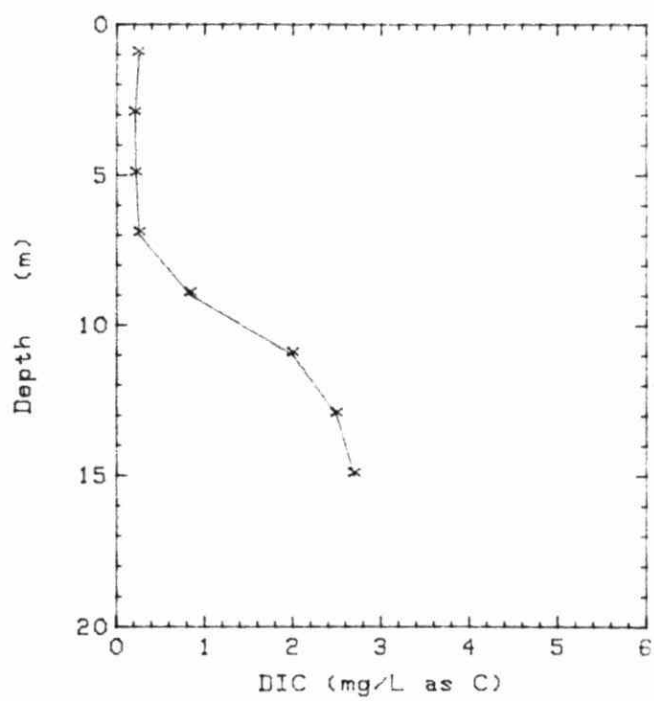



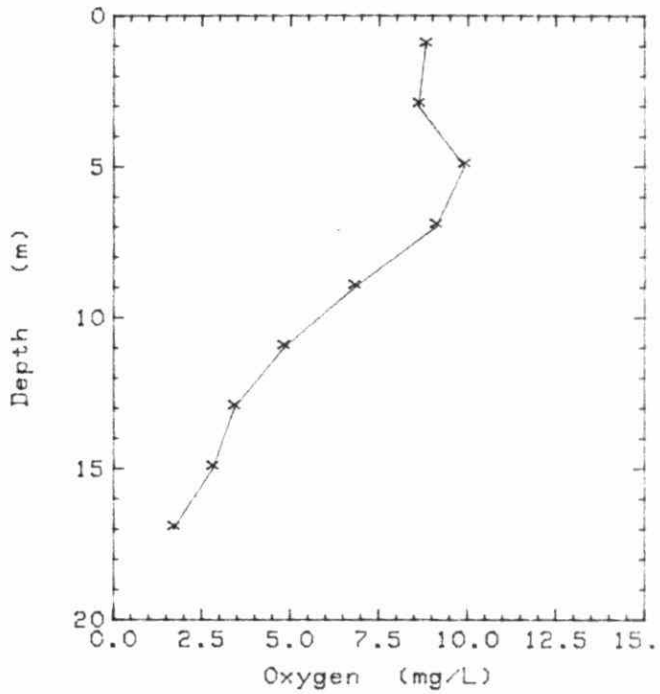
# LEONARD 80.06.16

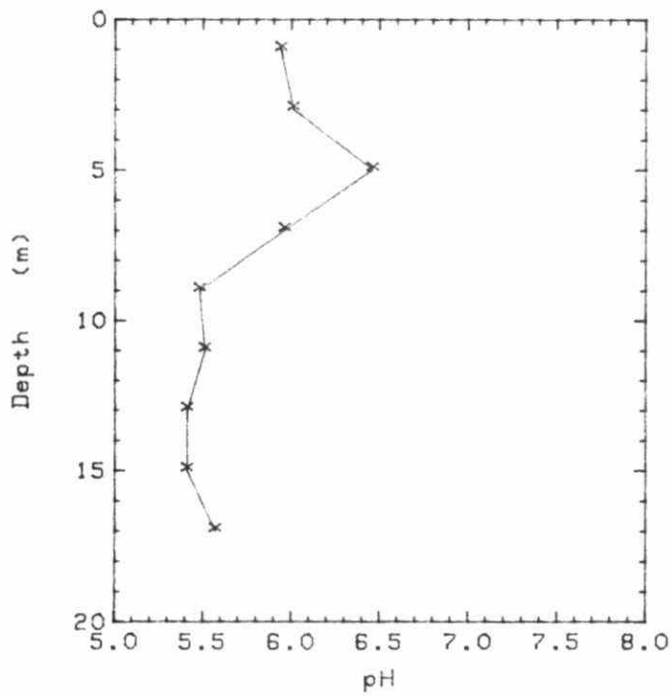


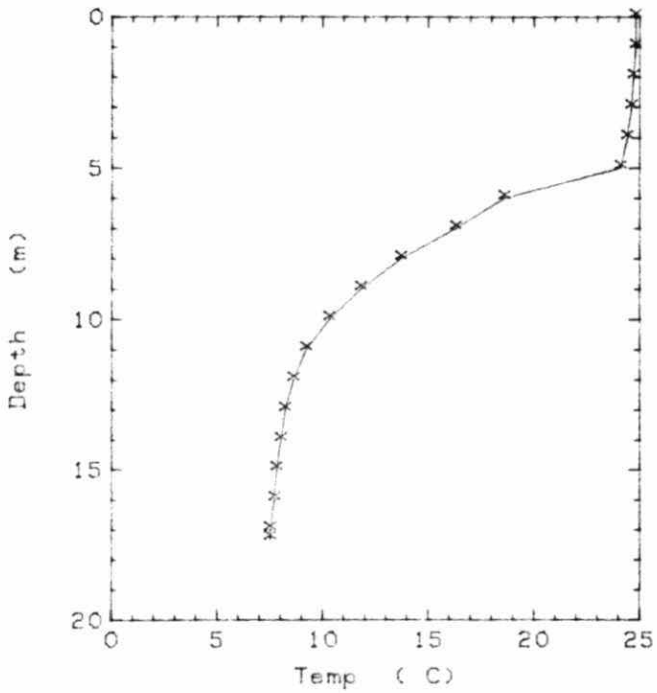



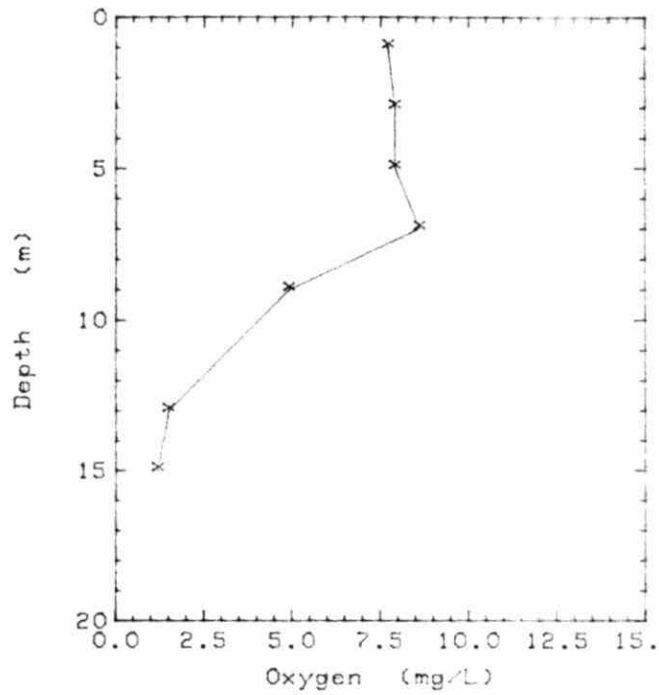
# LEONARD 80.07.14

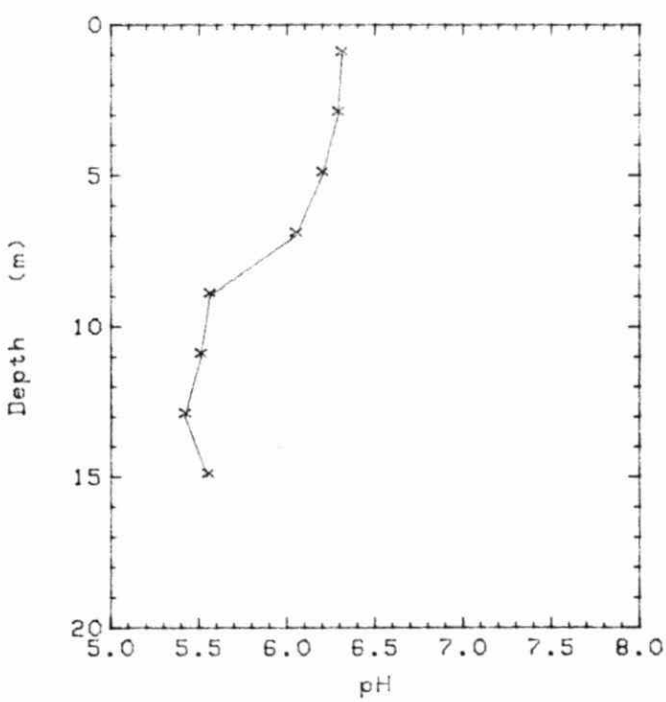


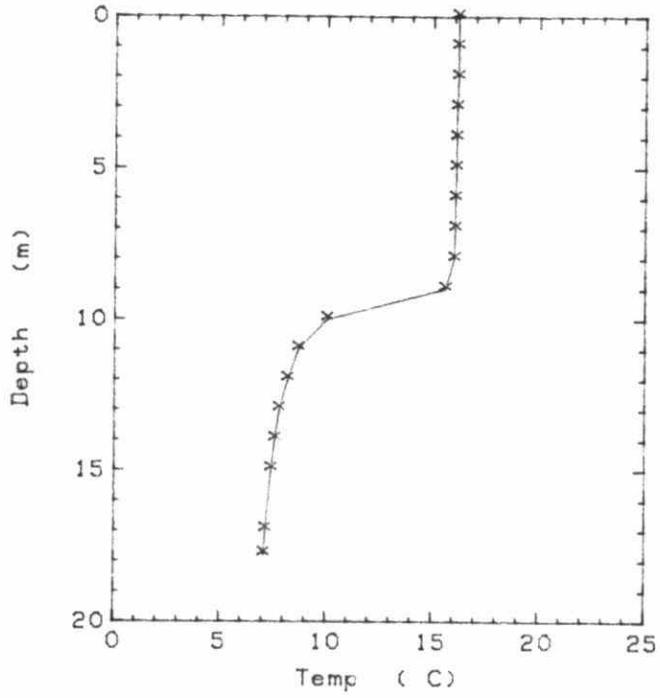
# LEONARD 80.08.11

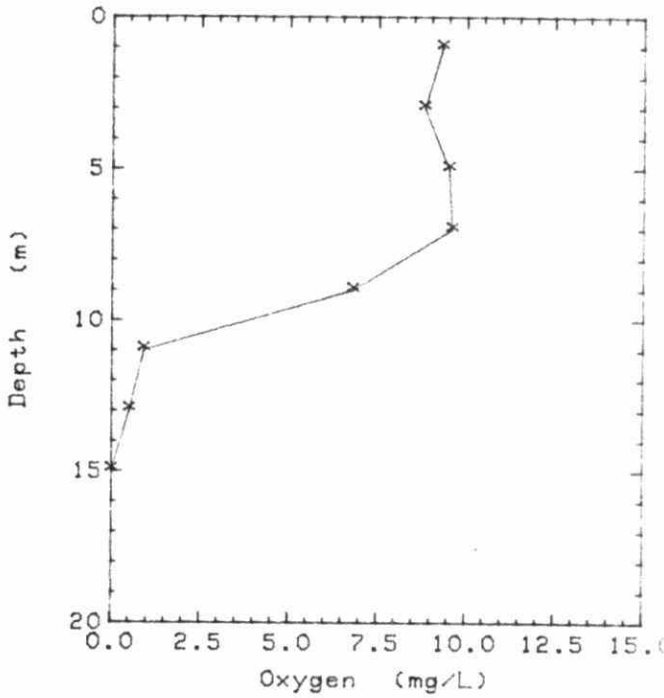


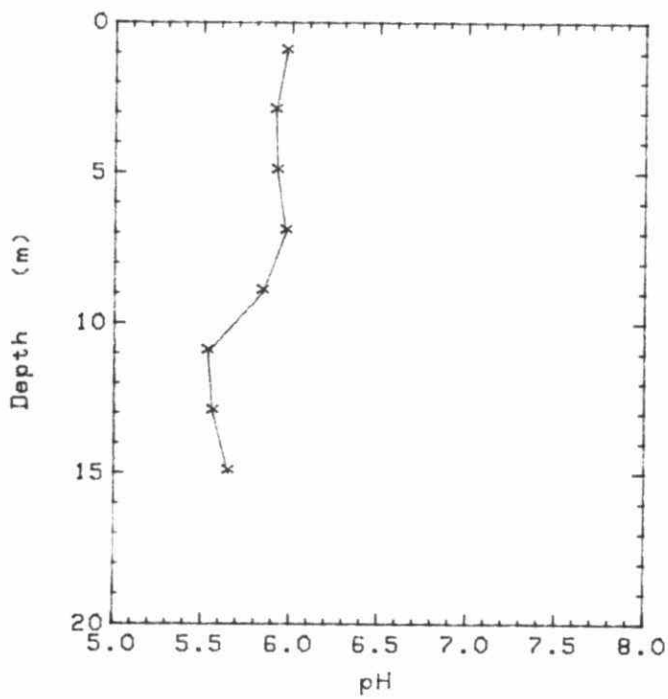



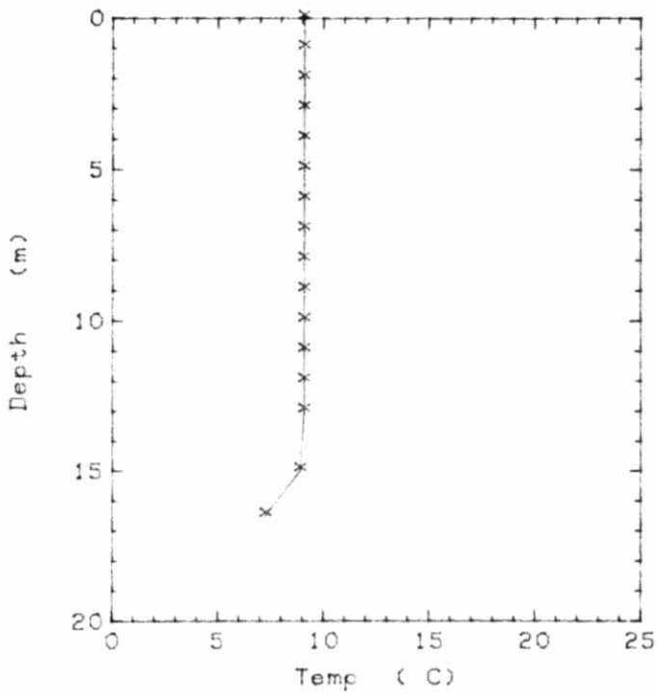
# LEONARD 80.09.24

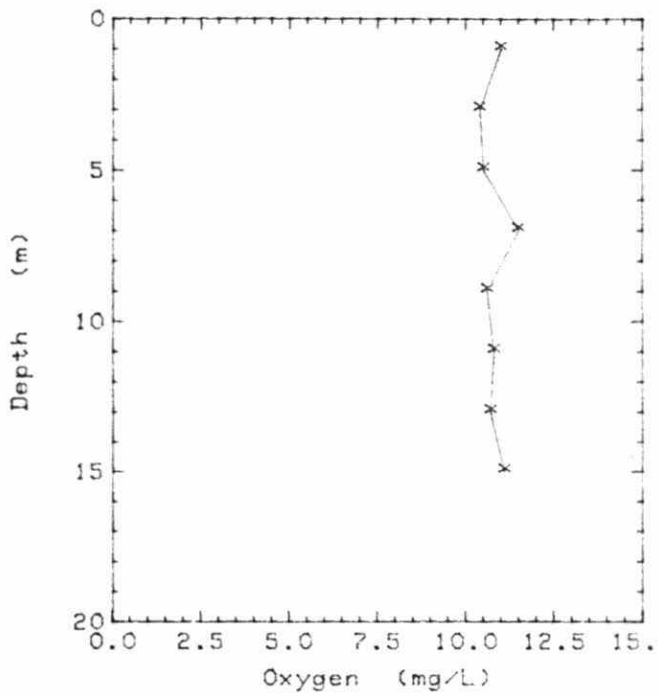


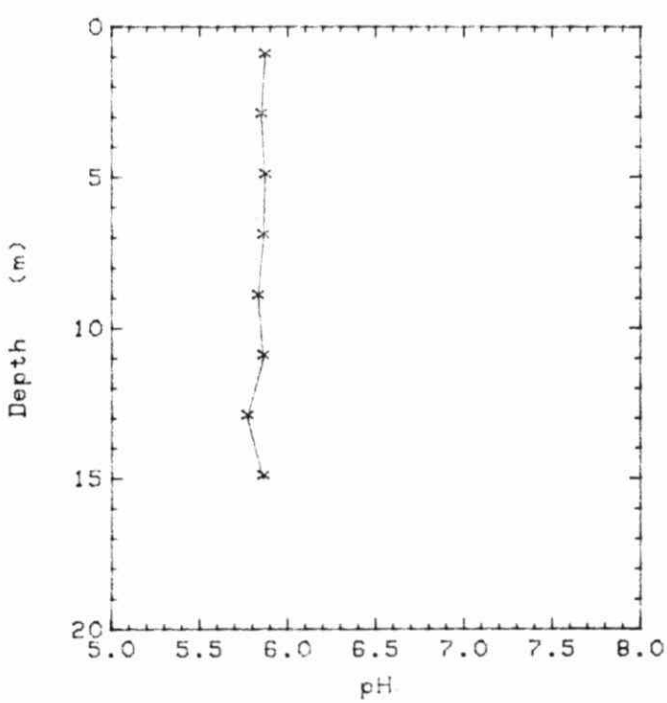



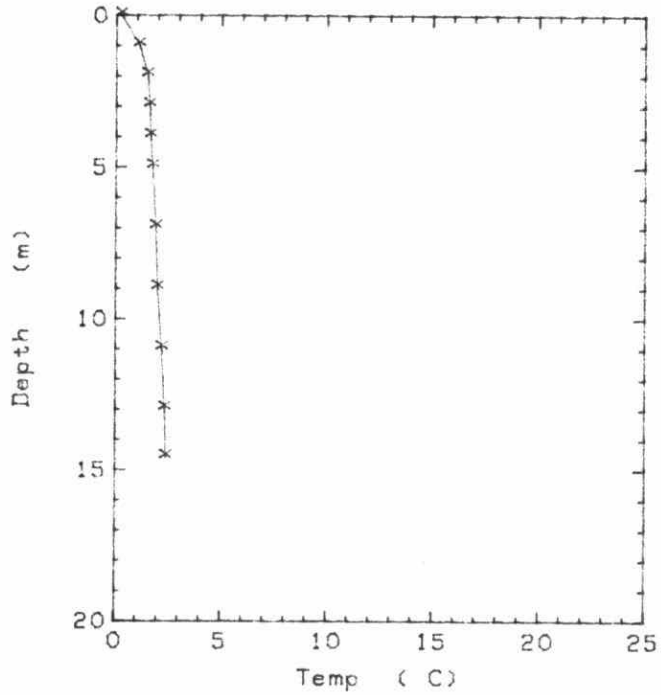
# LEONARD 80.10.24

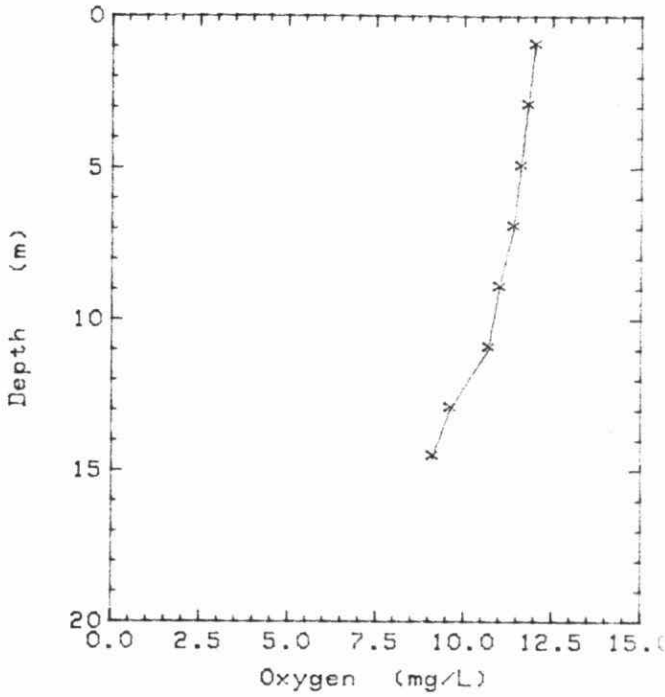


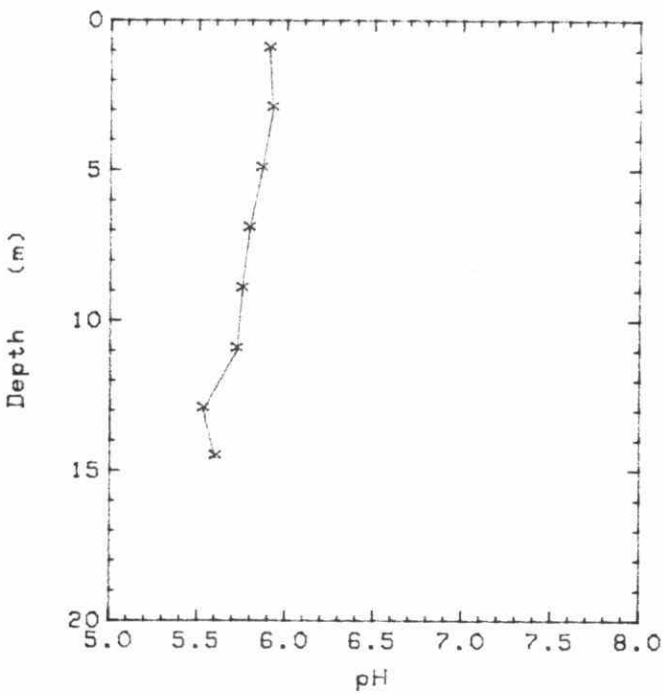



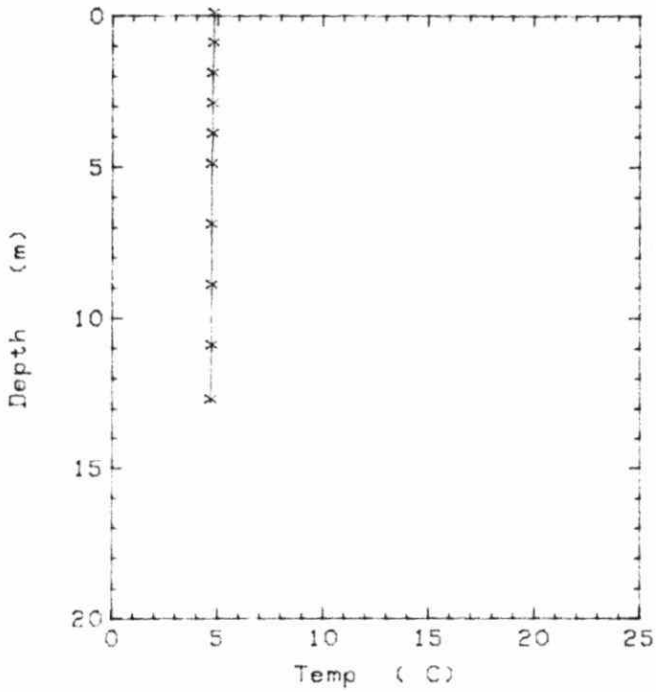
# LEONARD 81.01.22

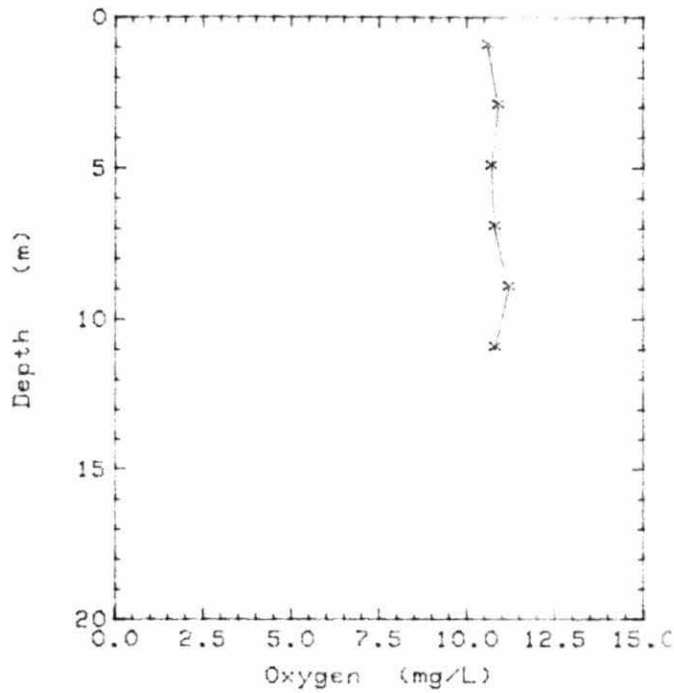


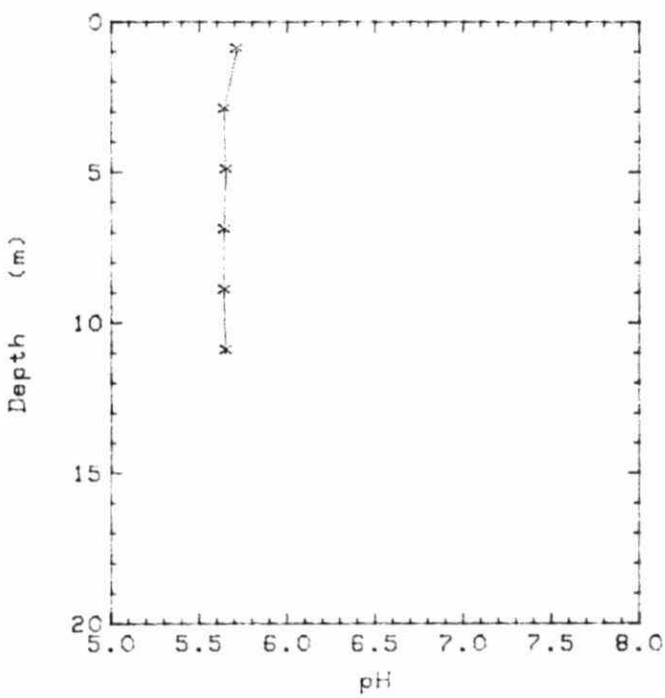



LEONARD 81.04.09



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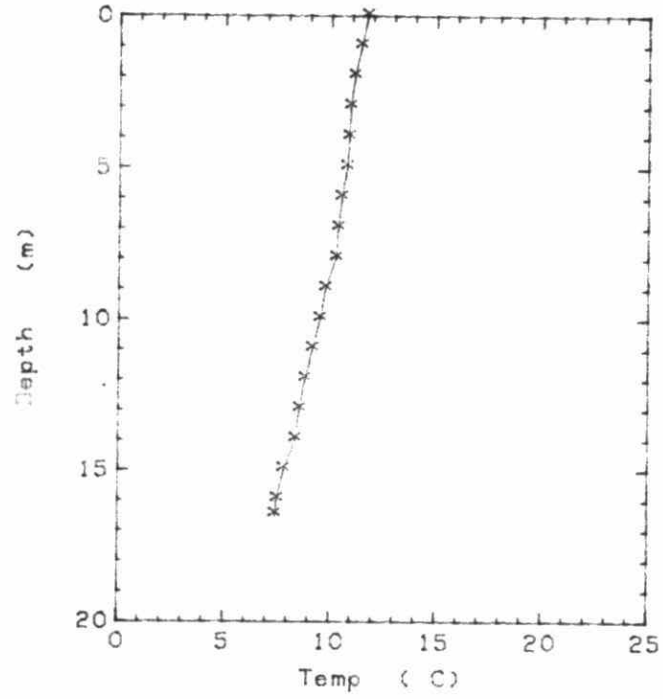
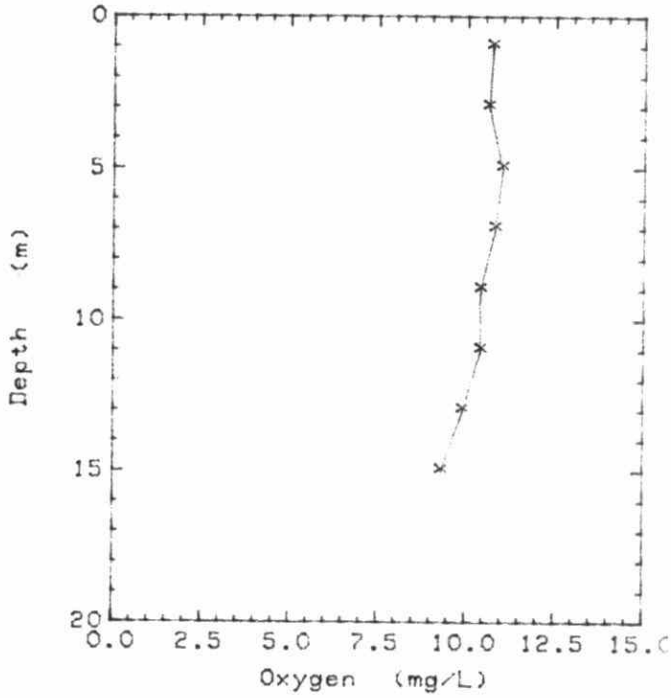
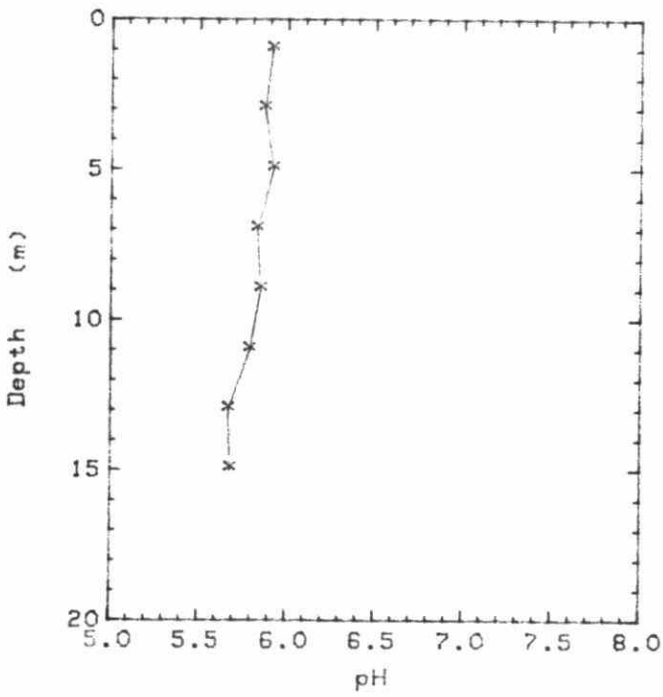
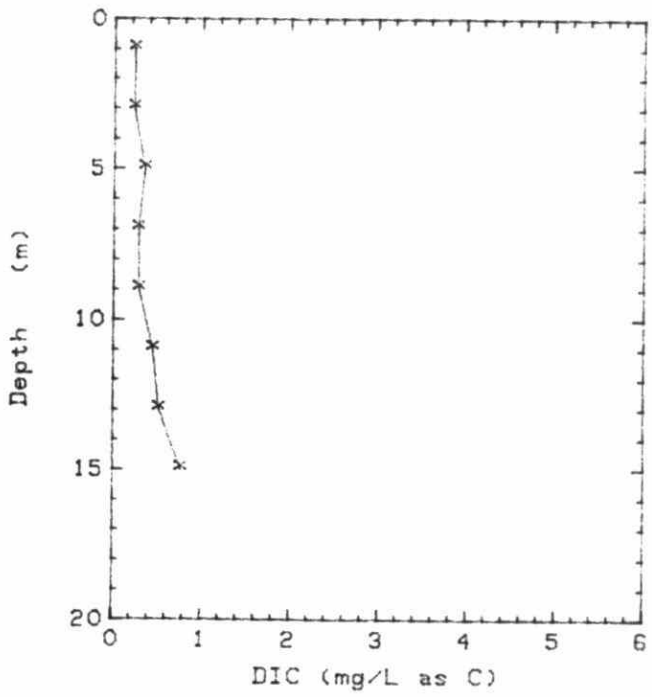
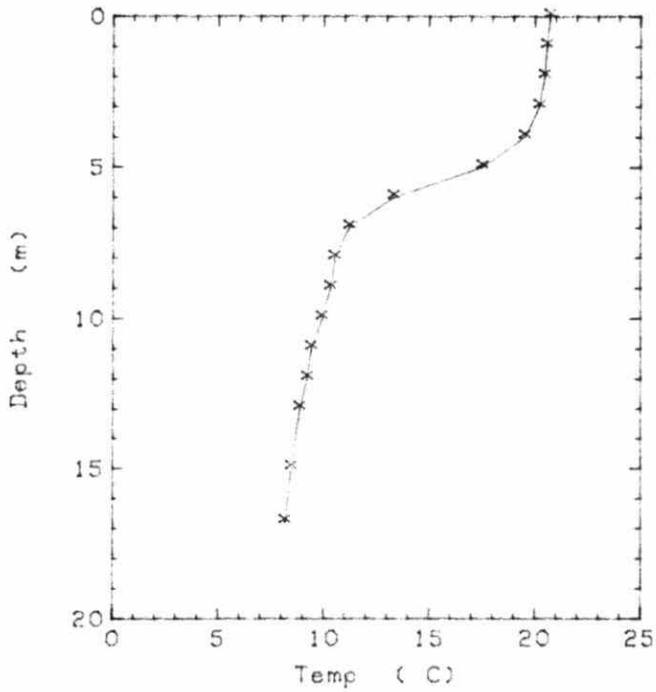


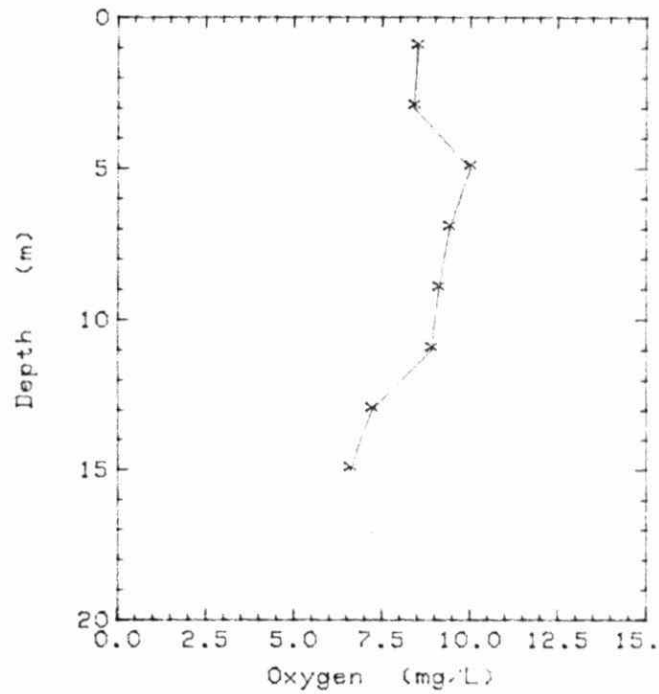



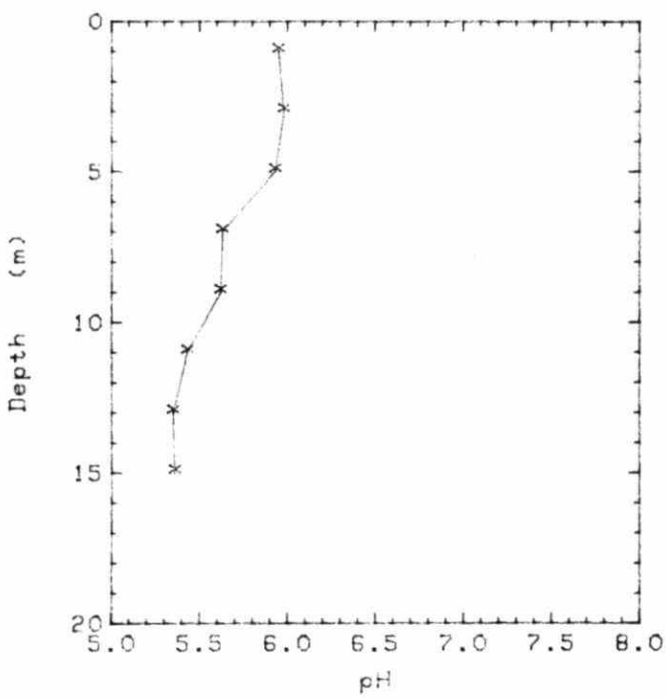



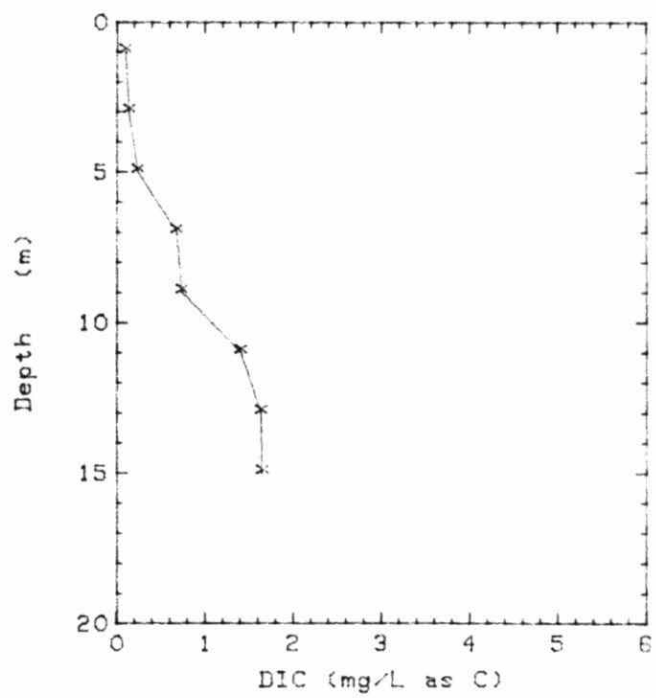



LEONARD 81.06.18

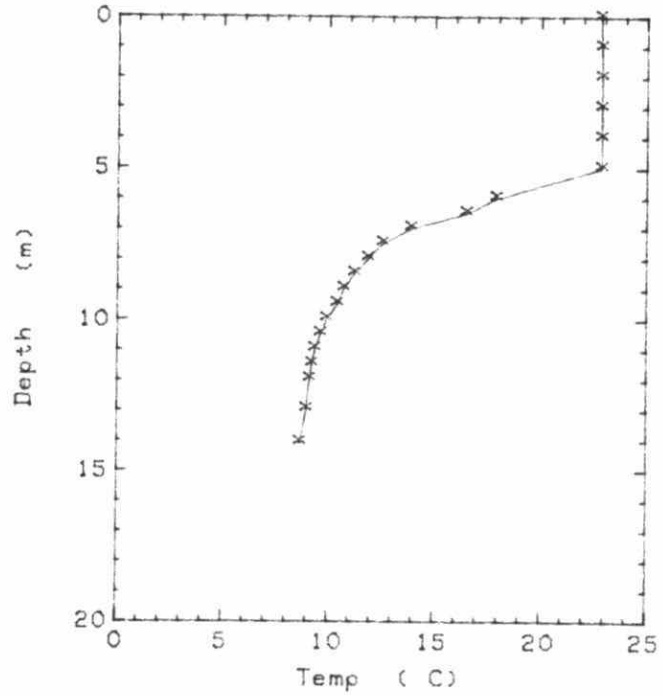


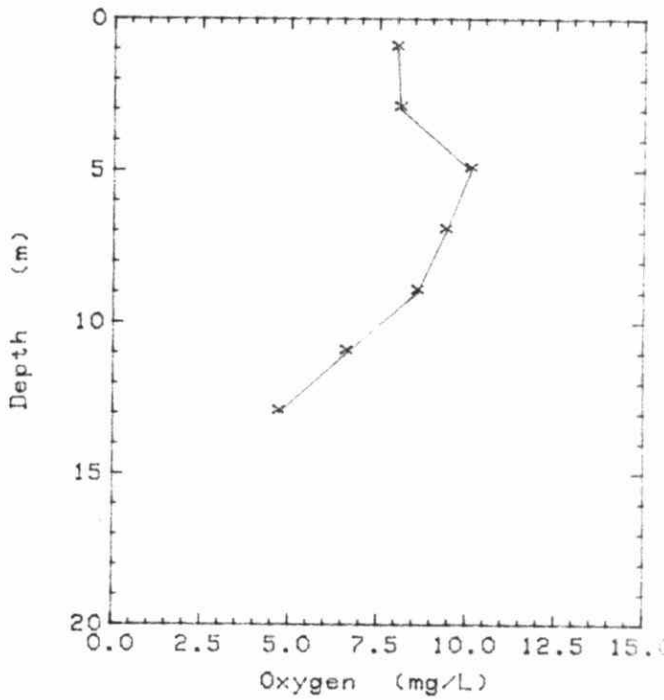



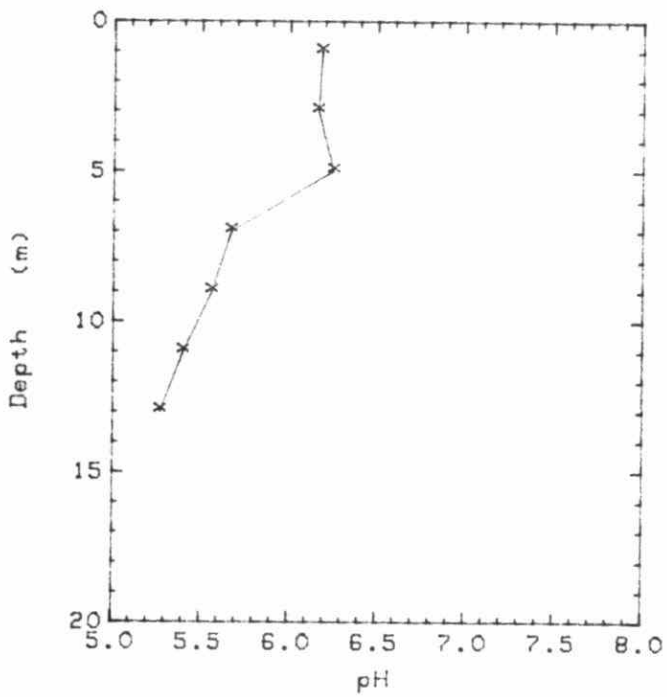



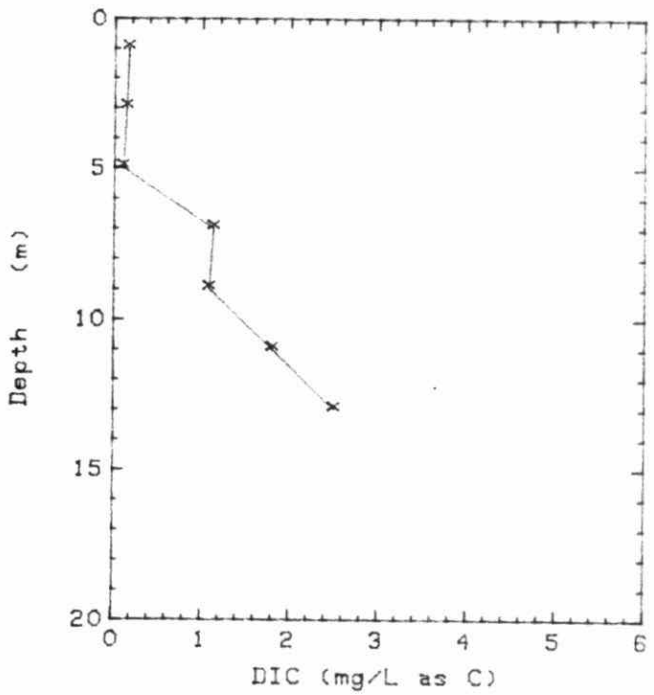



# LEONARD 81.07.22

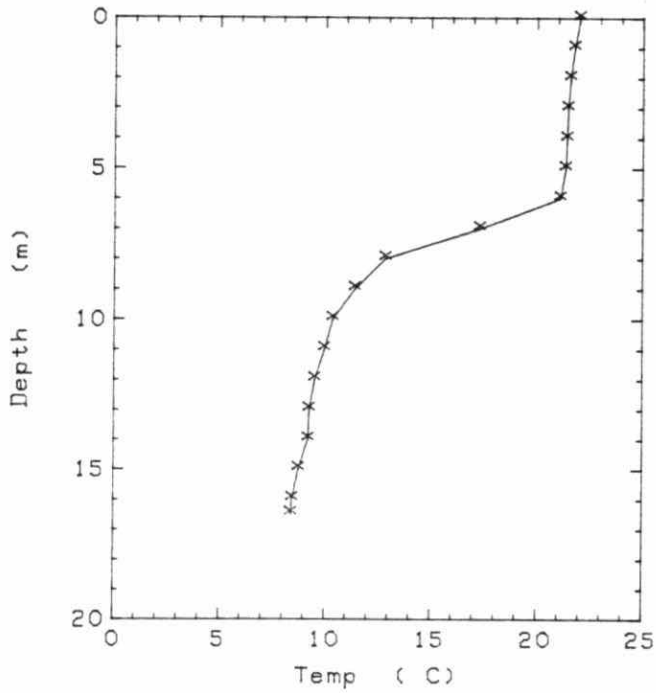


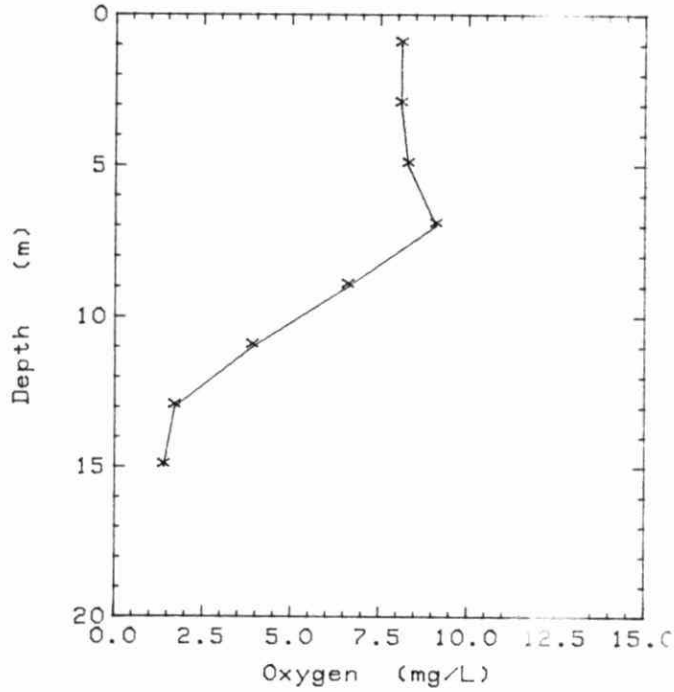



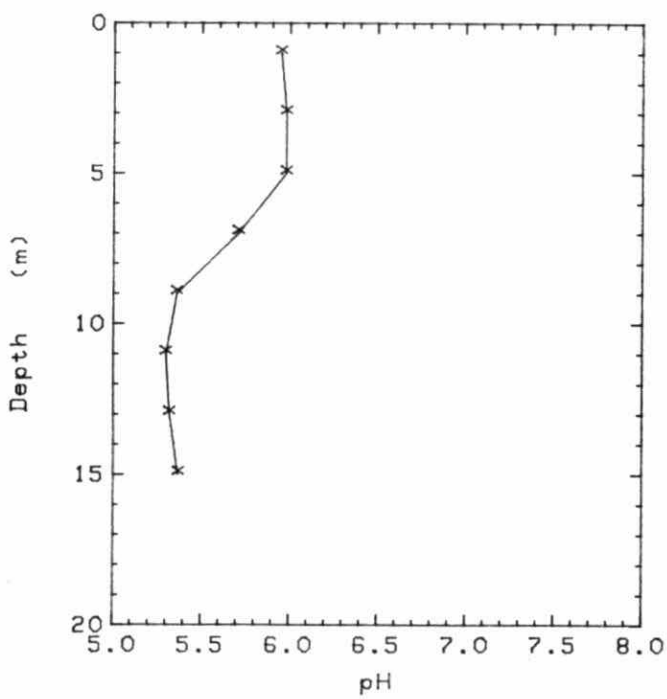



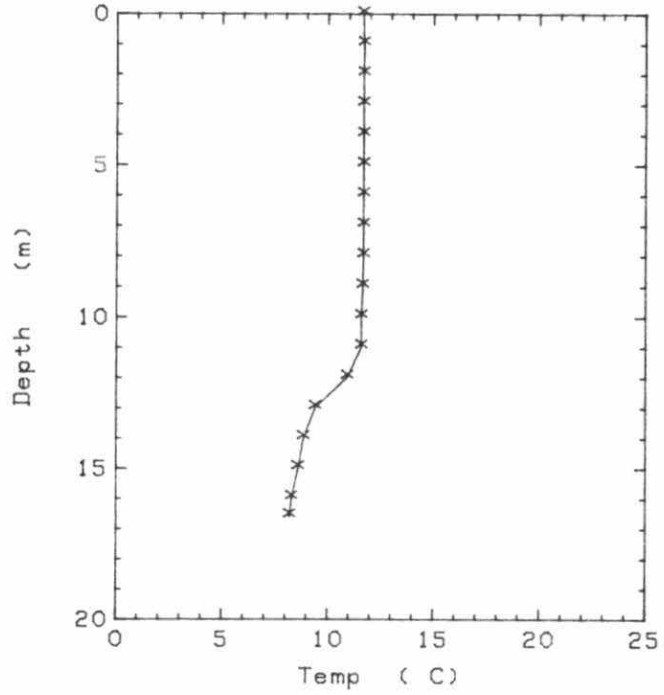
# LEONARD 81.08.25

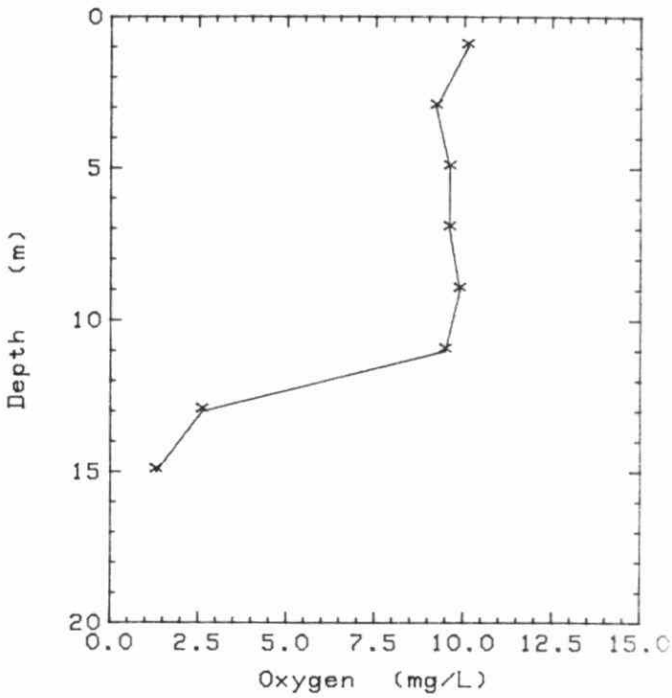


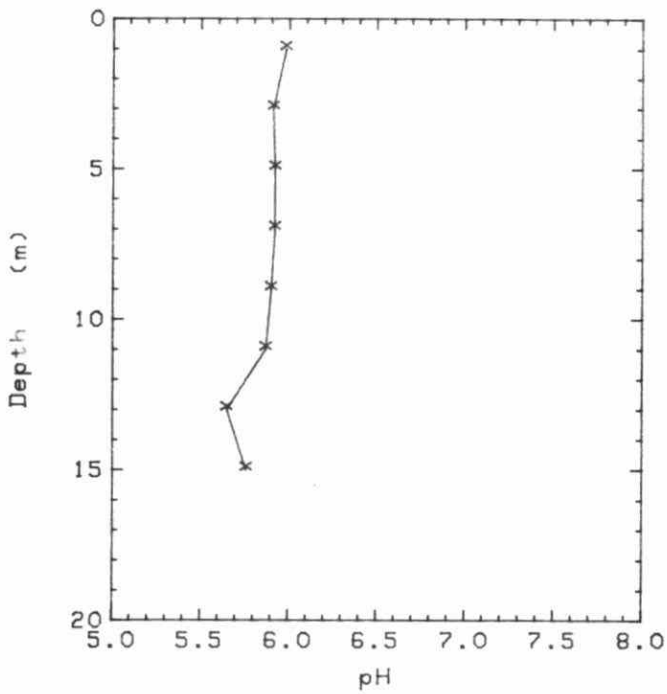



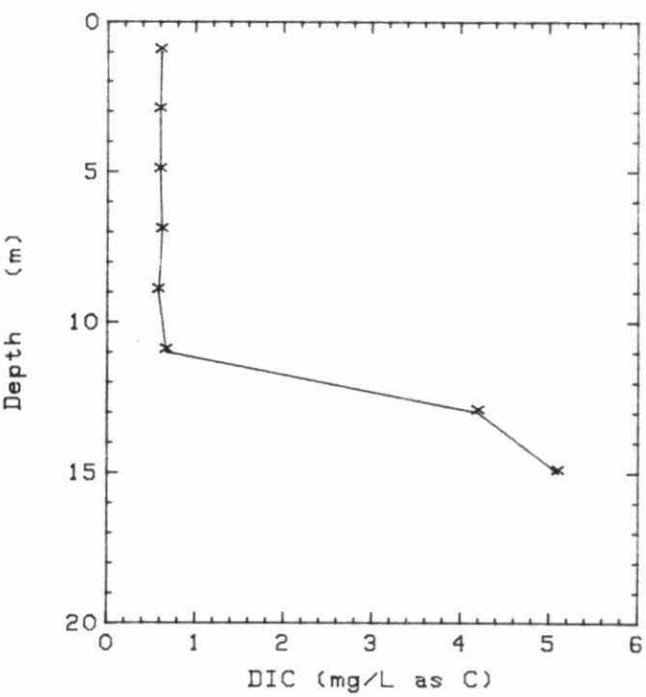



# LEONARD 81.10.05

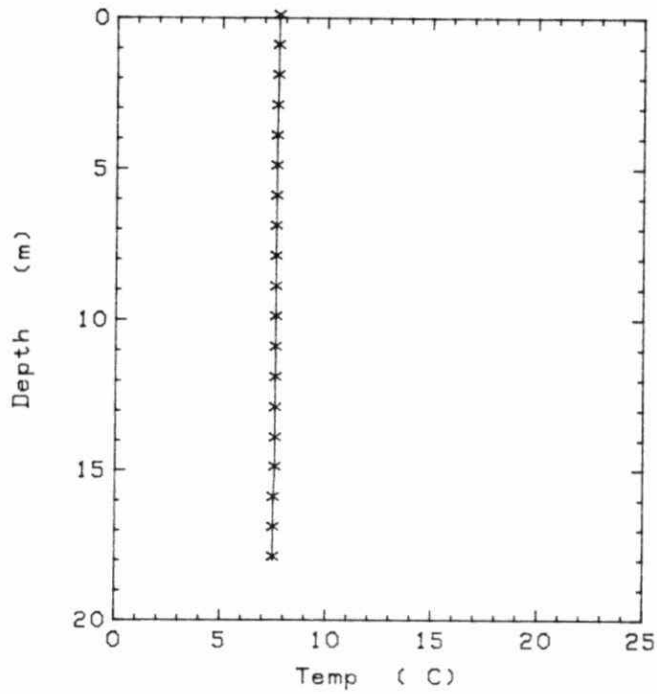


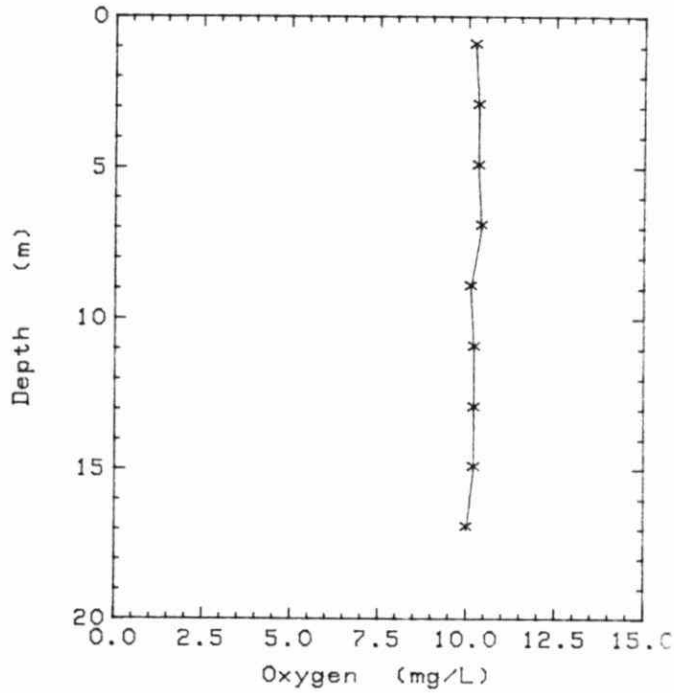



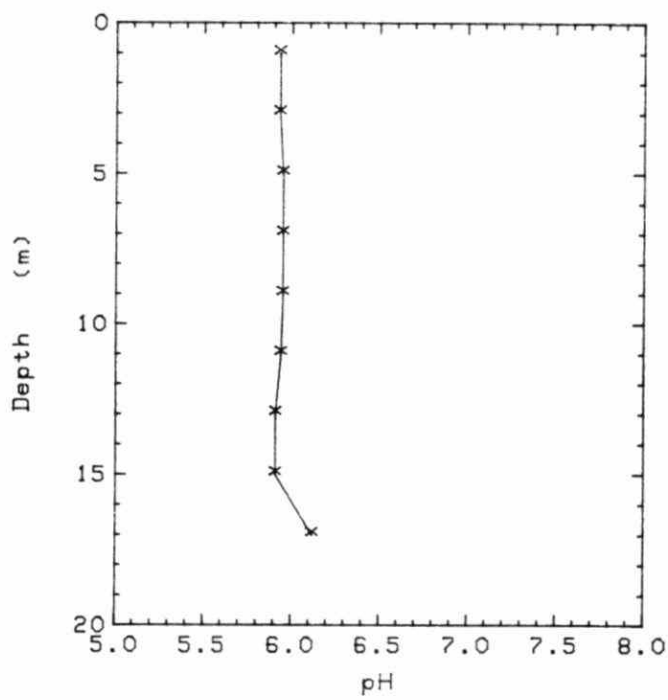



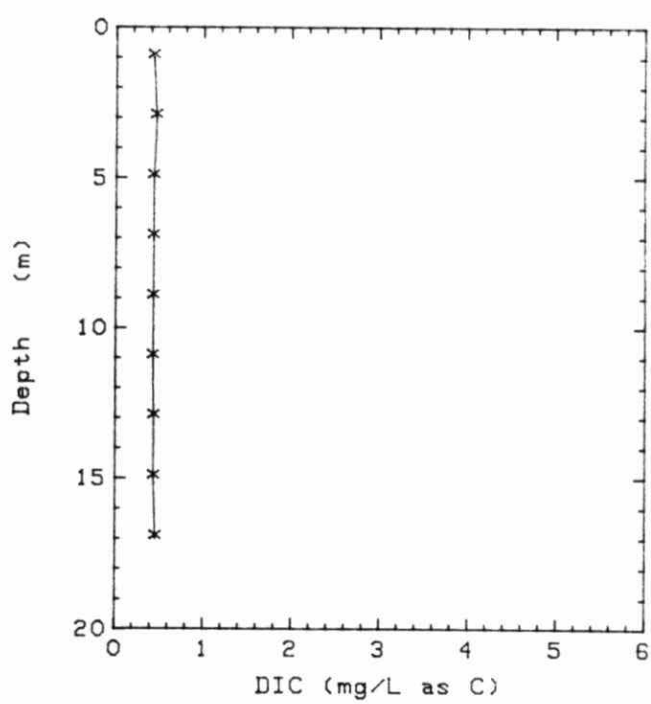



# LEONARD 81.10.26

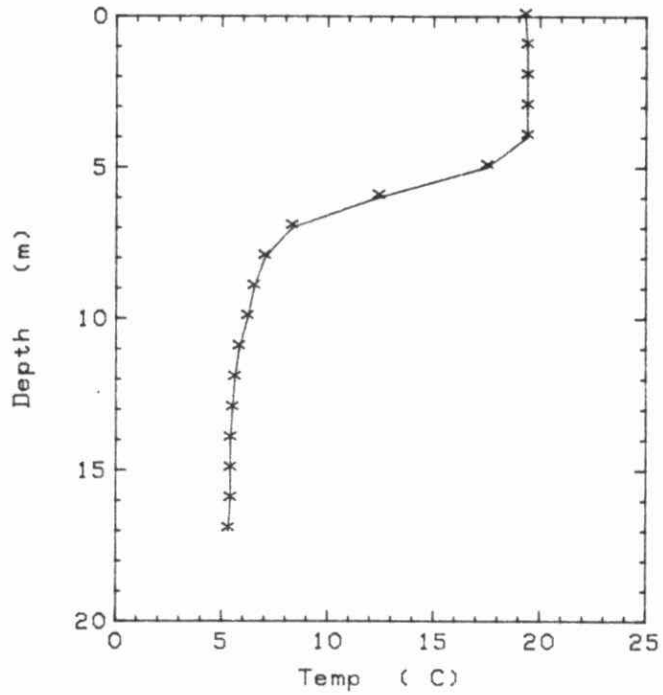


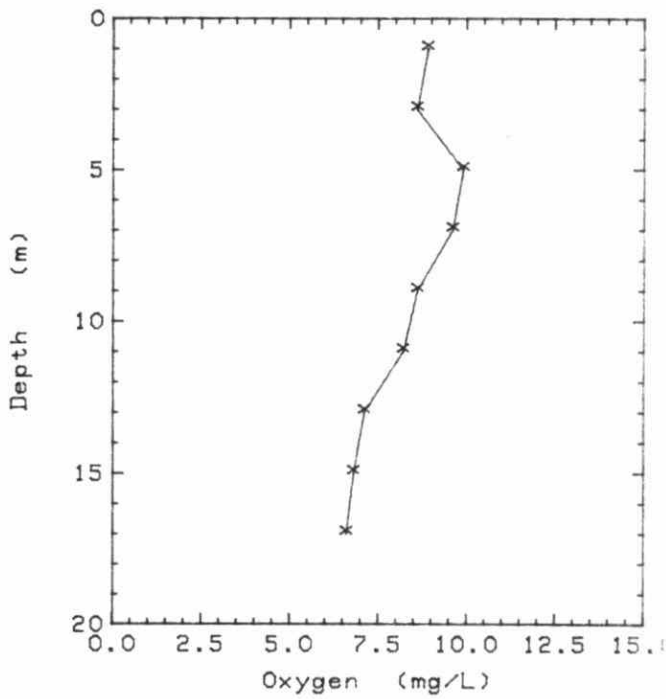



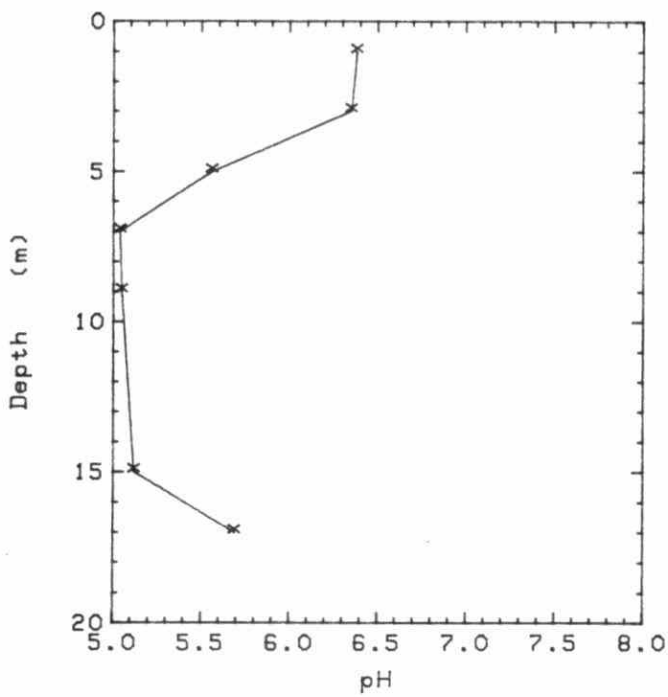



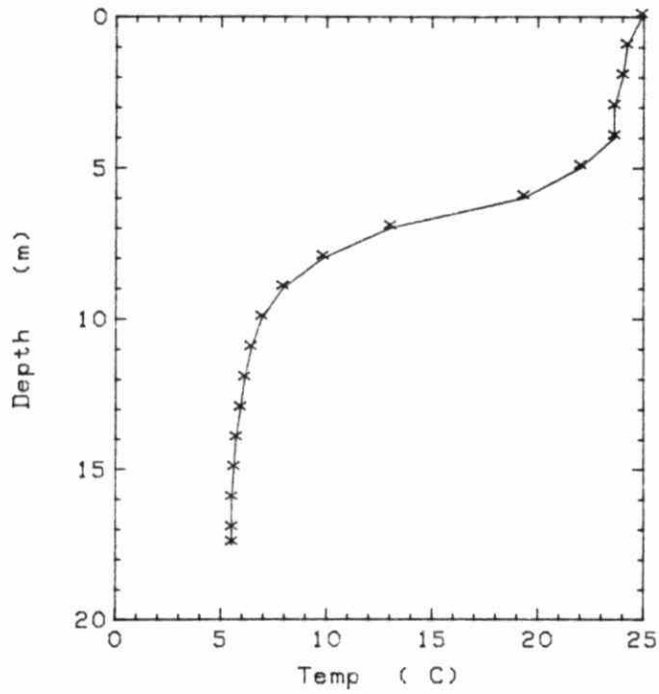
# LEONARD 82.06.15

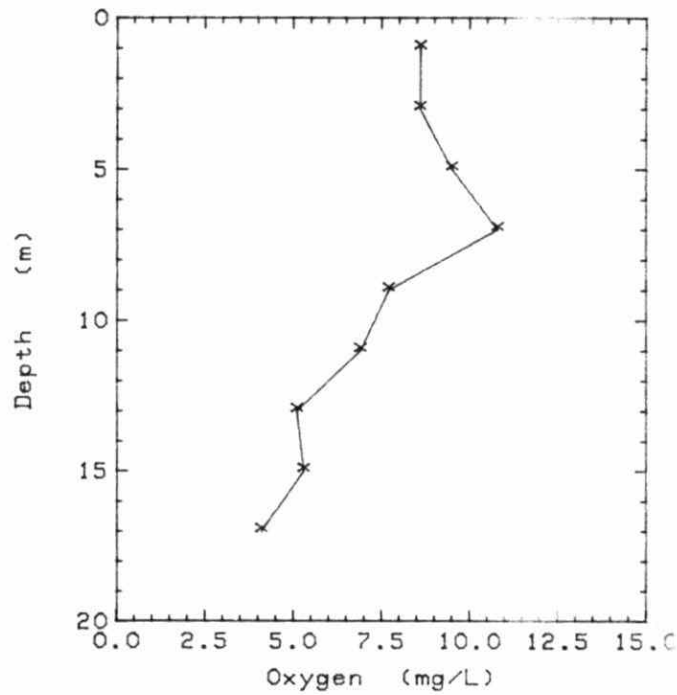


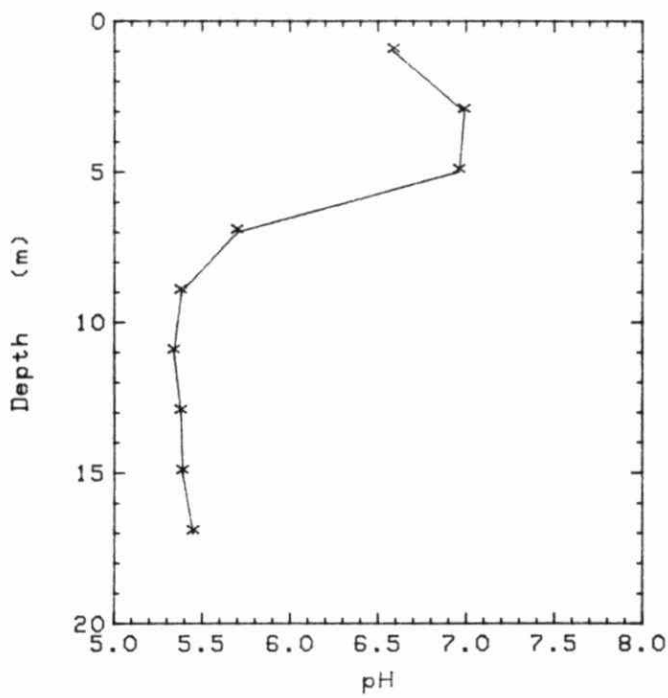



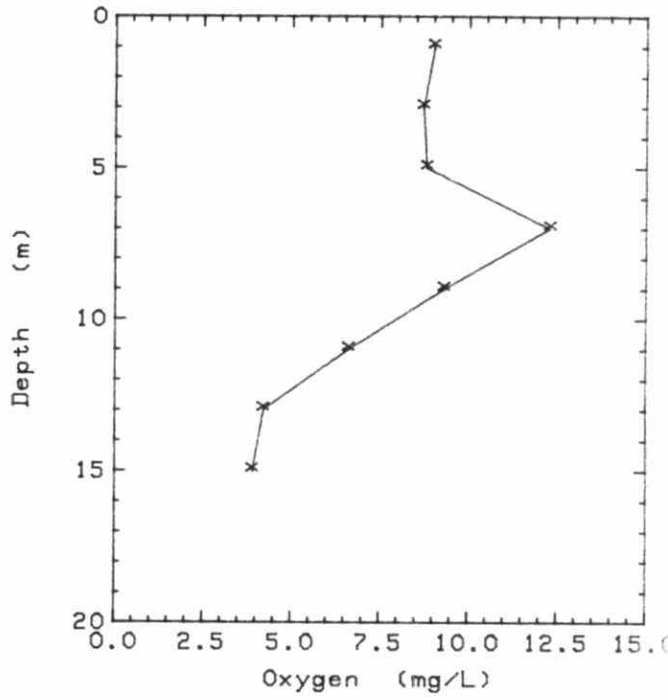
# LEONARD 82.07.21

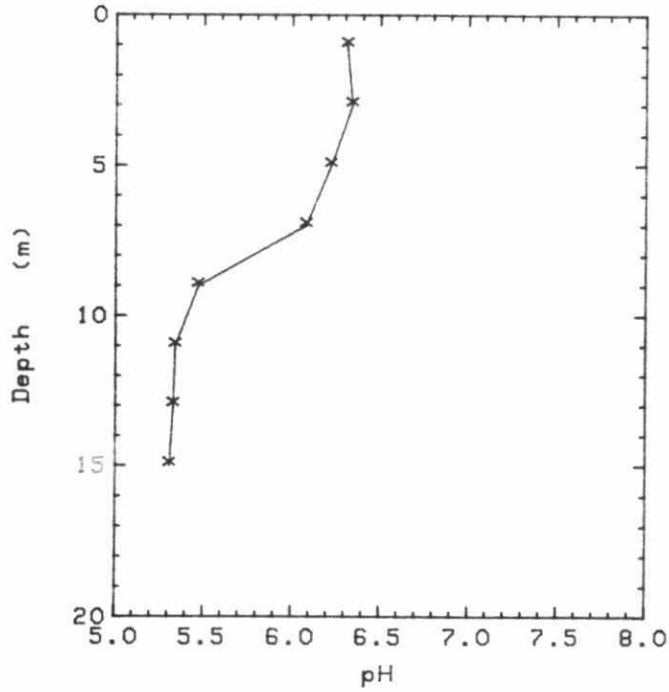


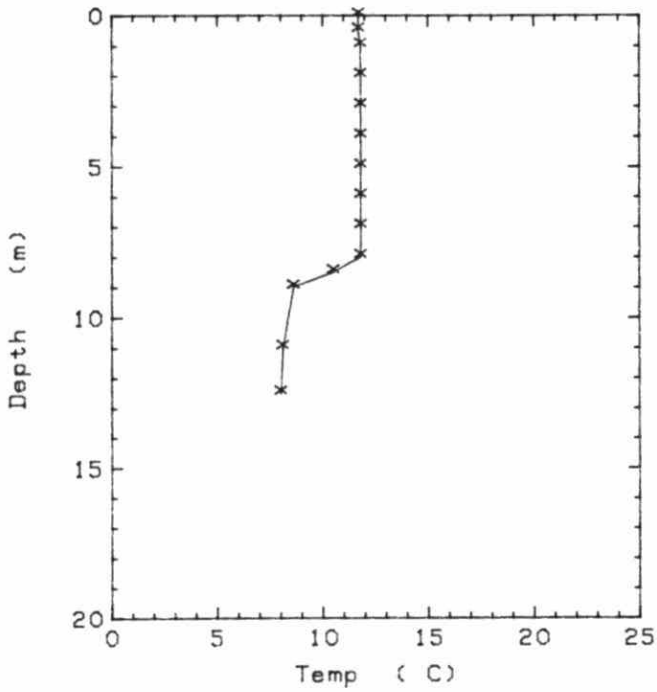



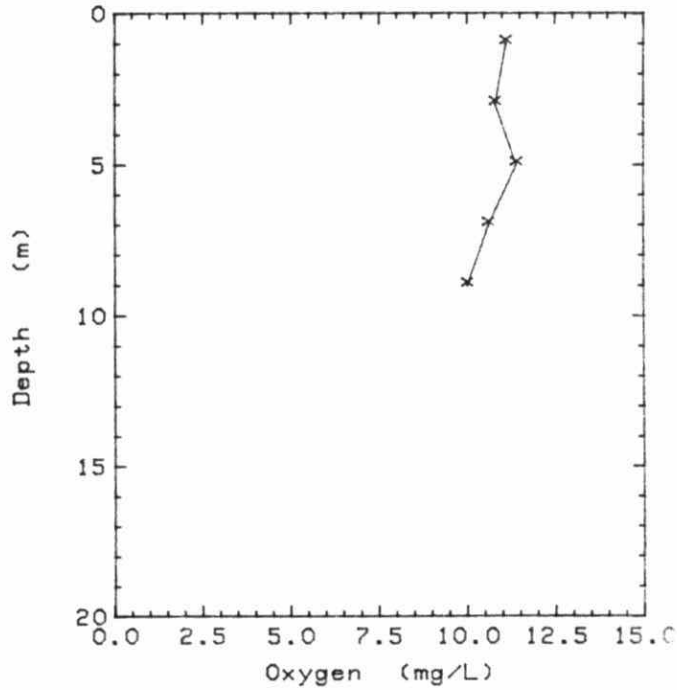
# LEONARD 82.08.10

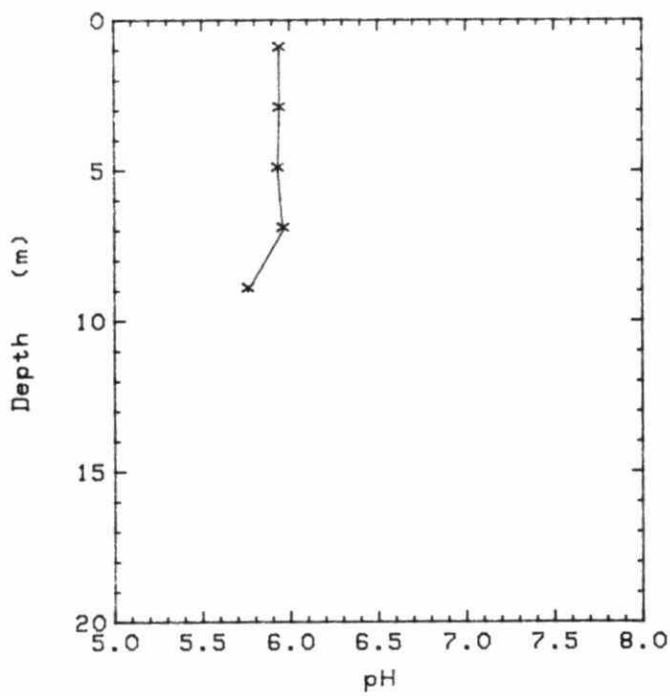


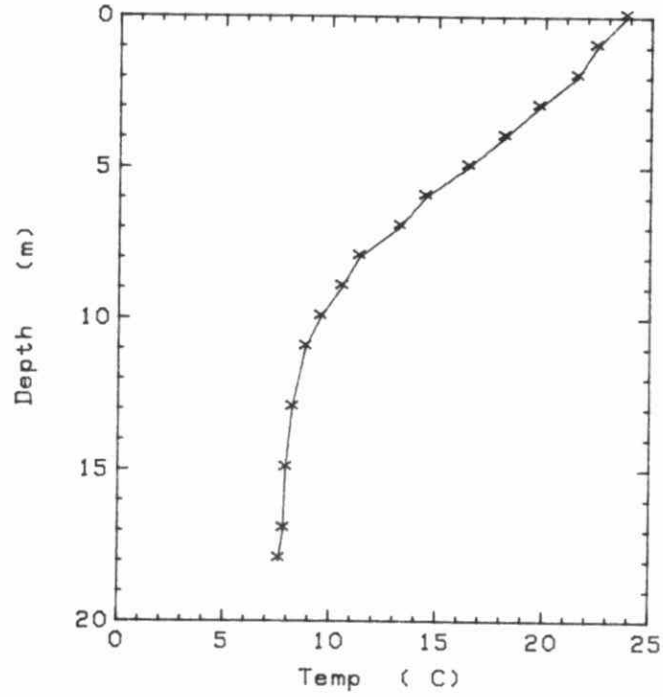
# LEONARD 83.05.26

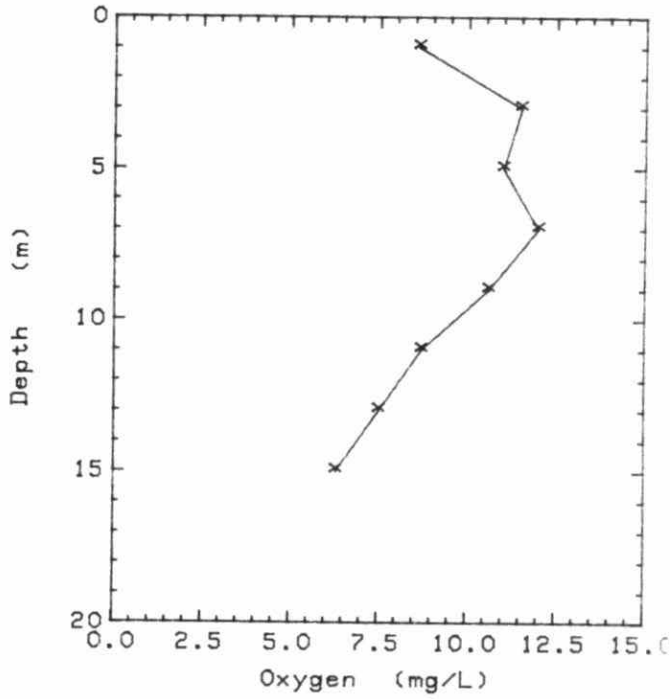


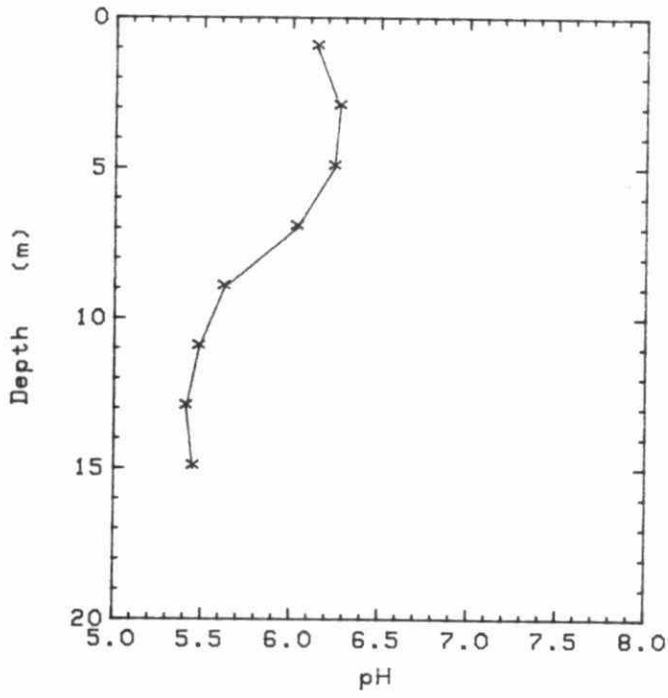



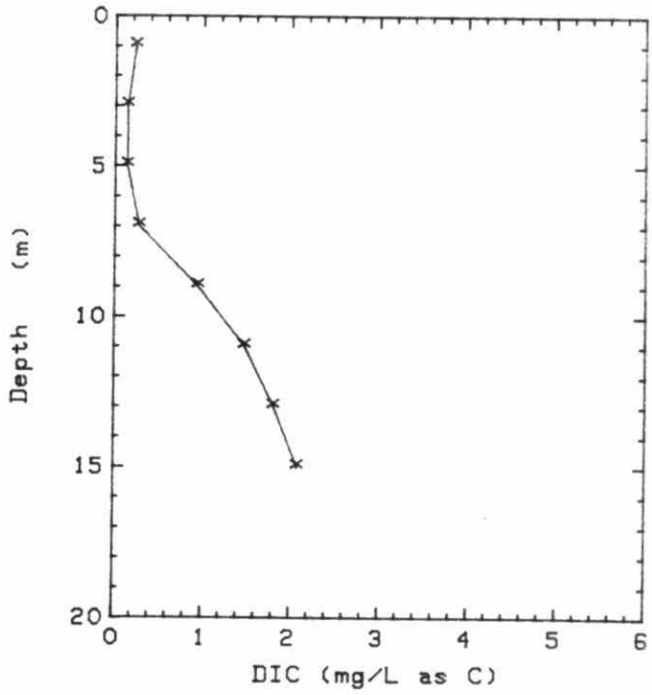



# LEONARD 83.06.21

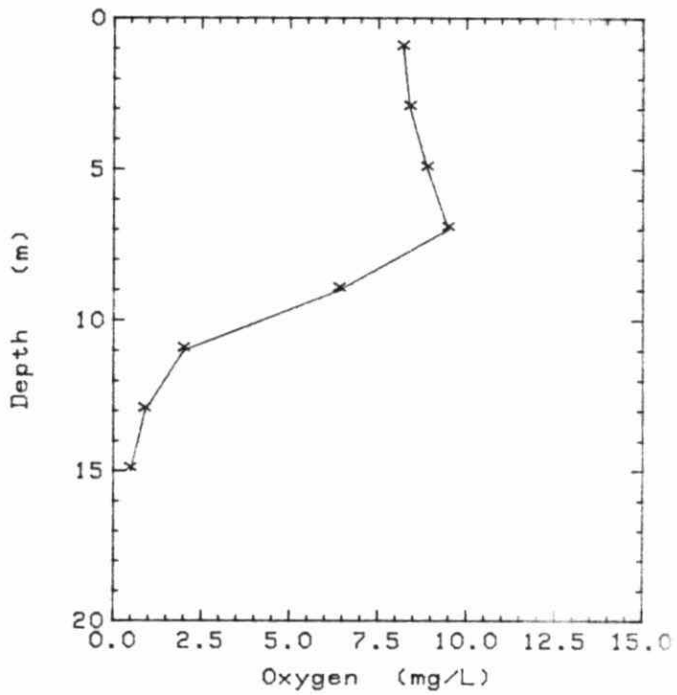


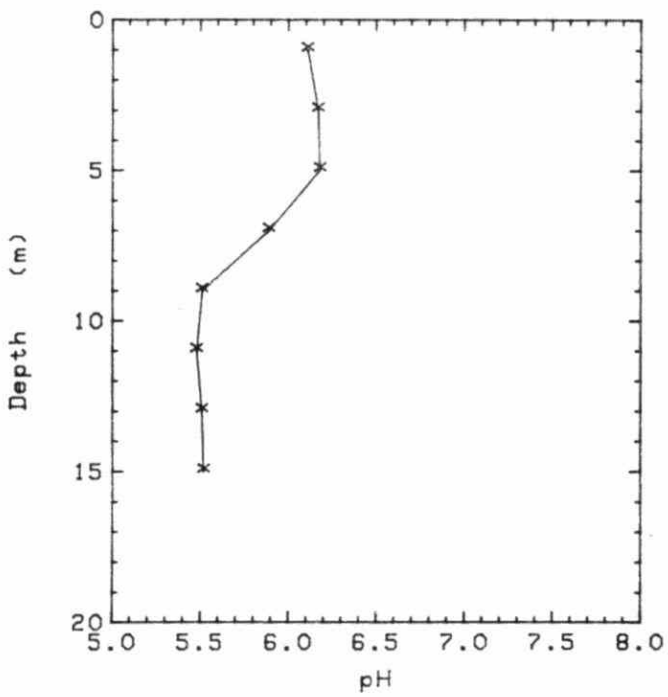



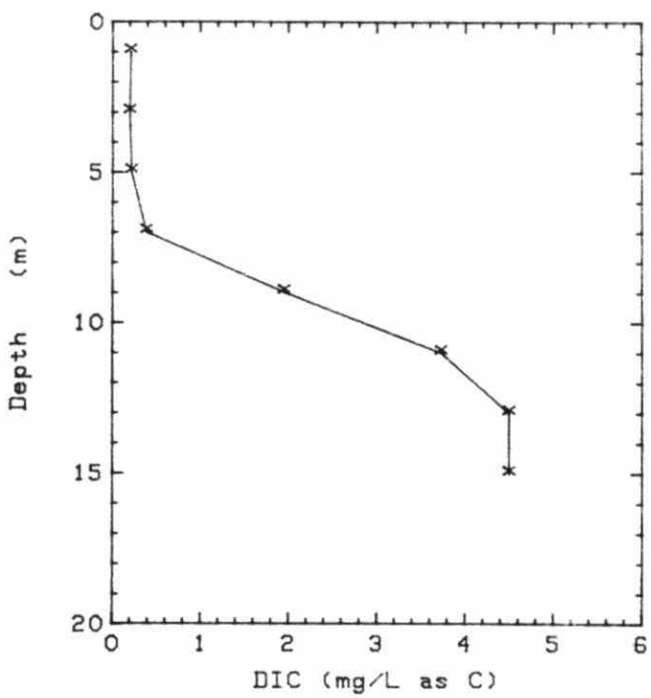



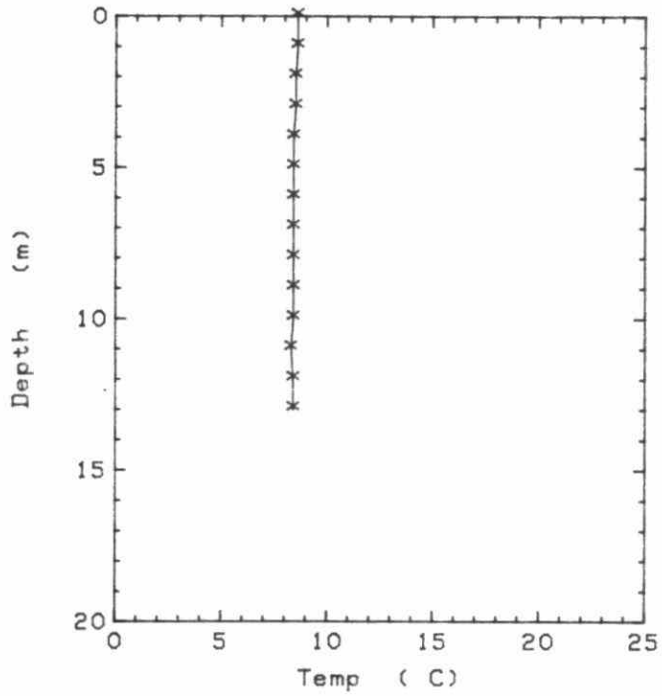
# LEONARD 83.09.01

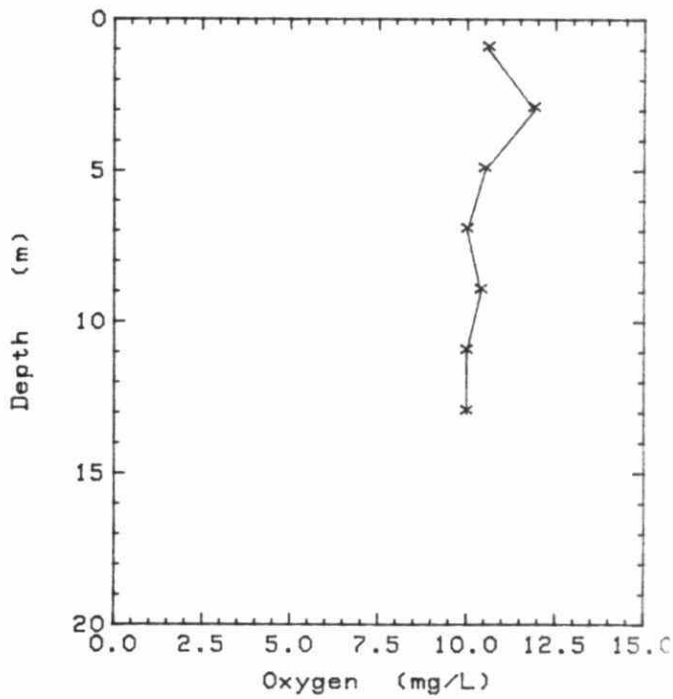


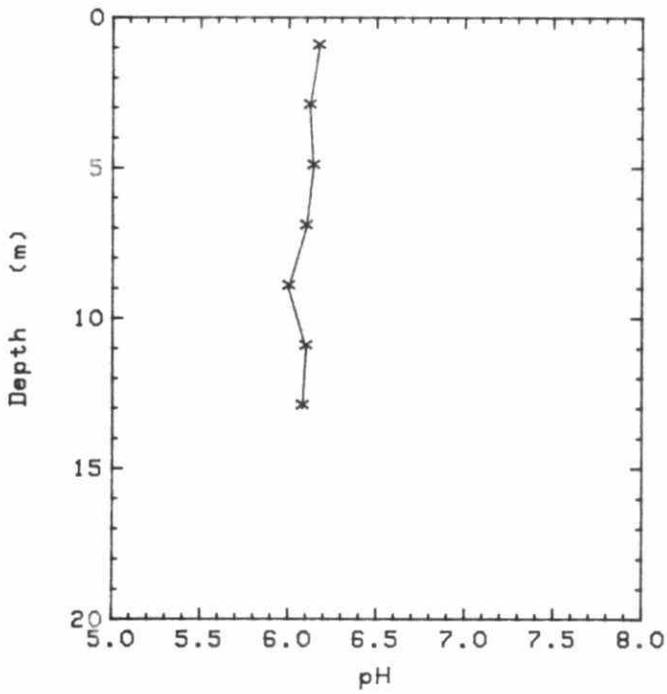



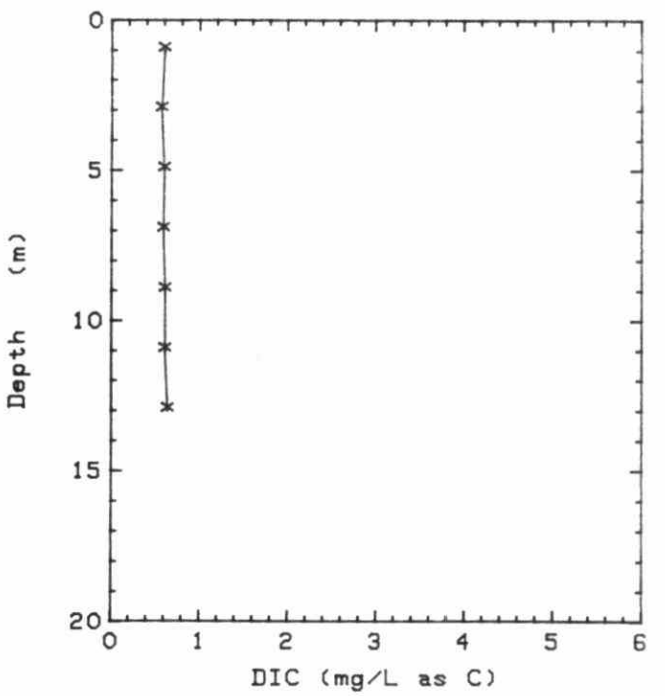



# LEONARD 83.10.31

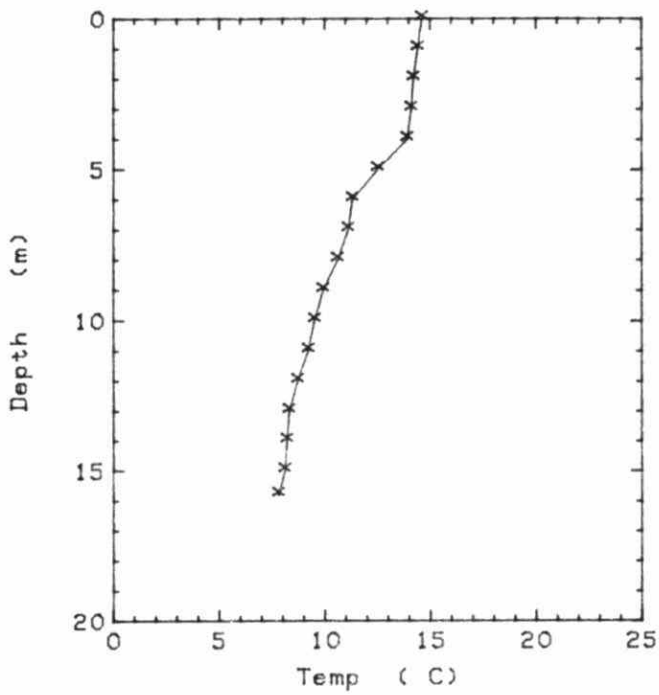


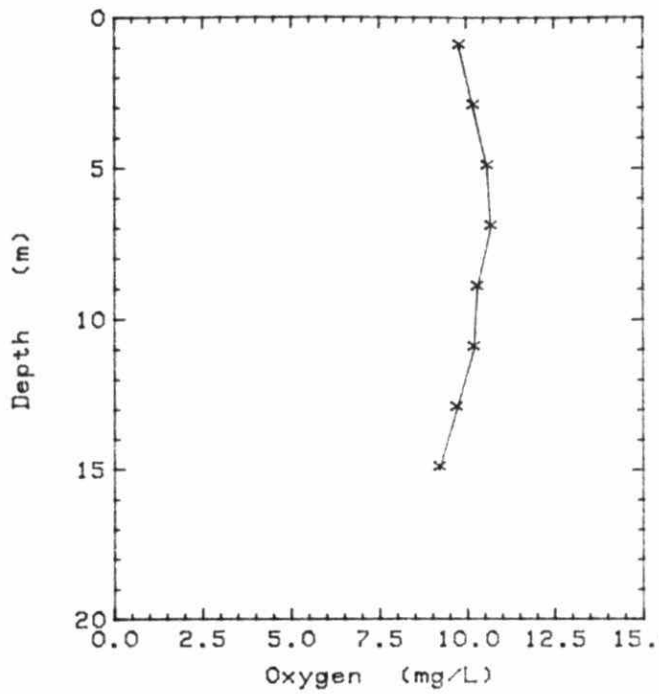



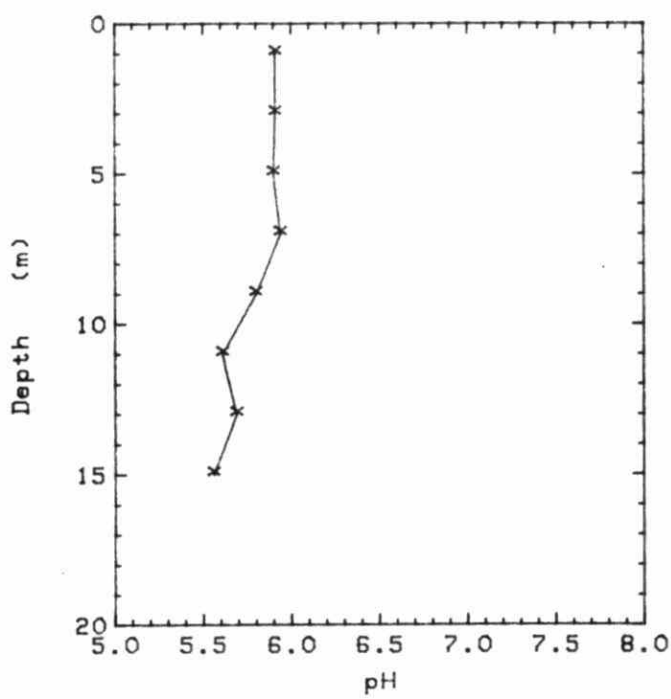



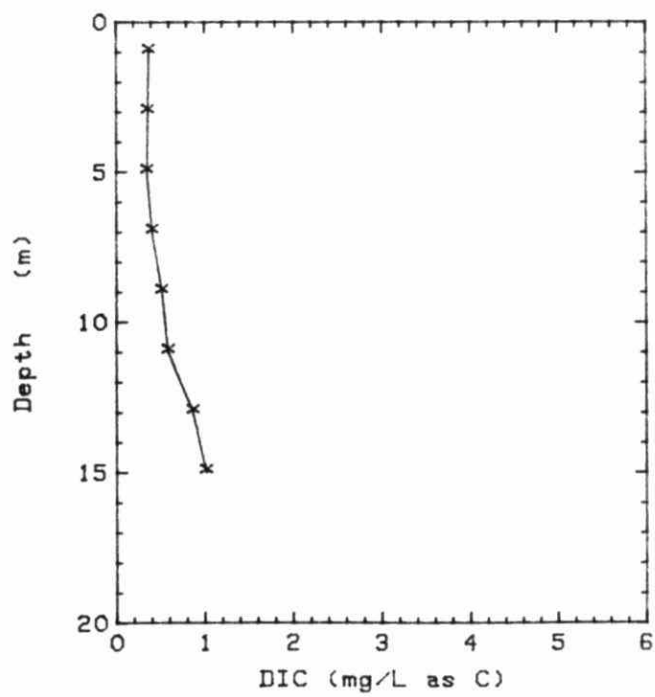



# LEONARD 84.05.24

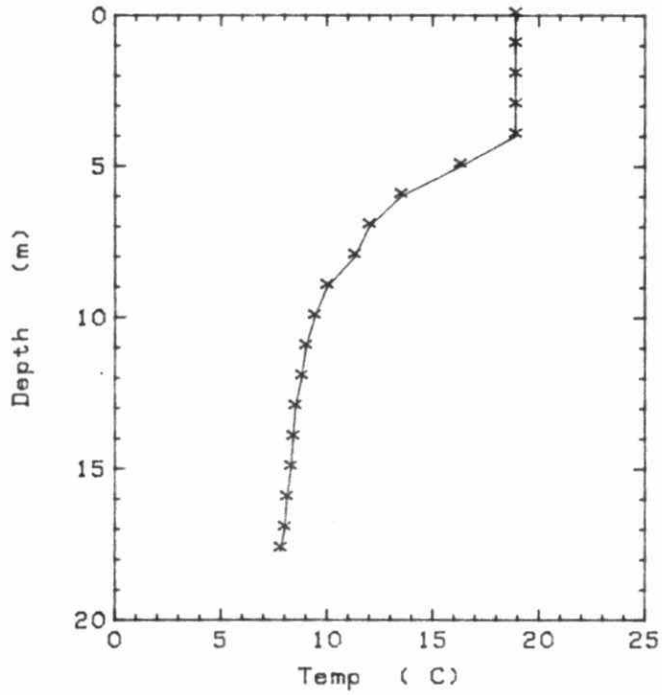


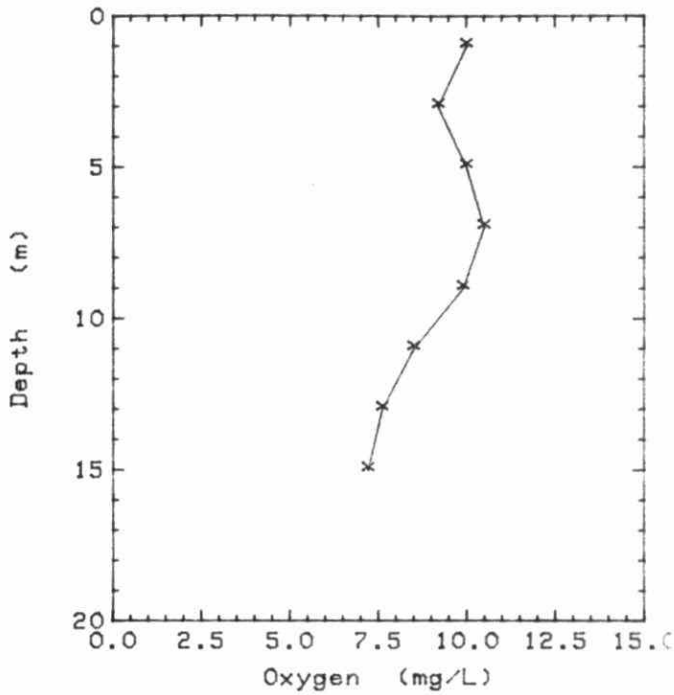



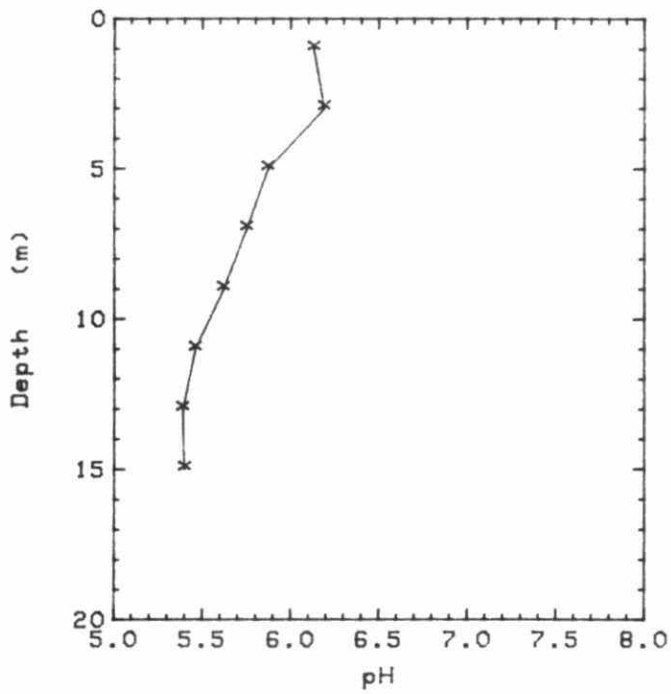



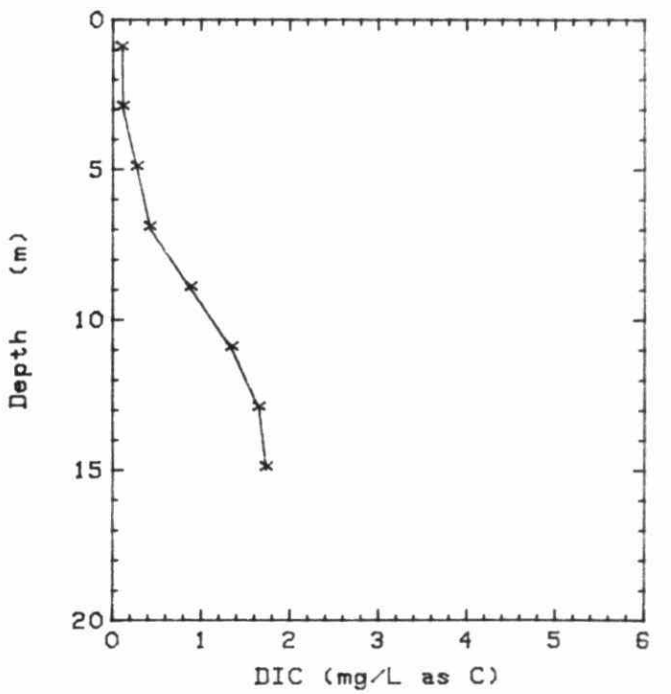



# LEONARD 84.06.19

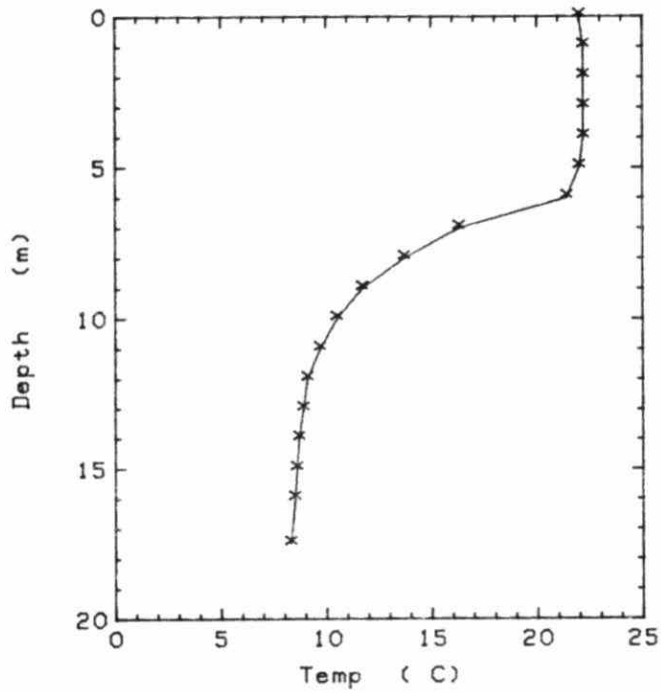


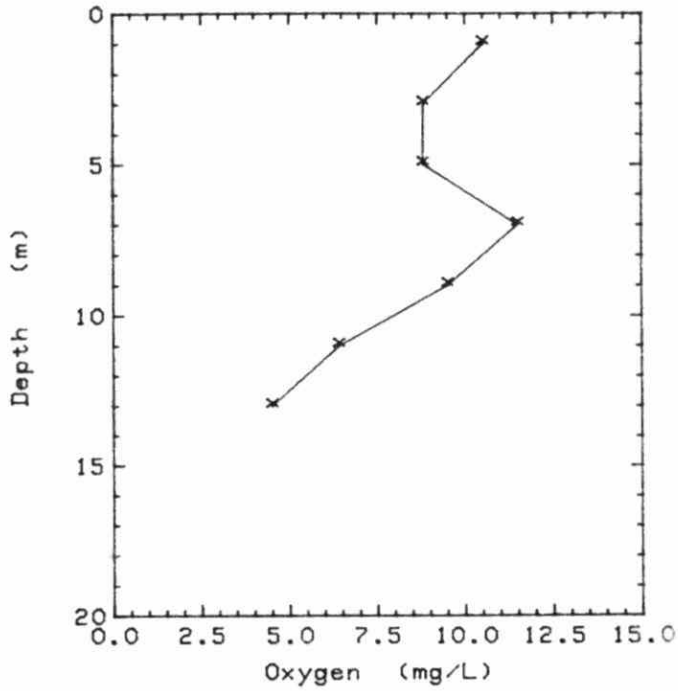



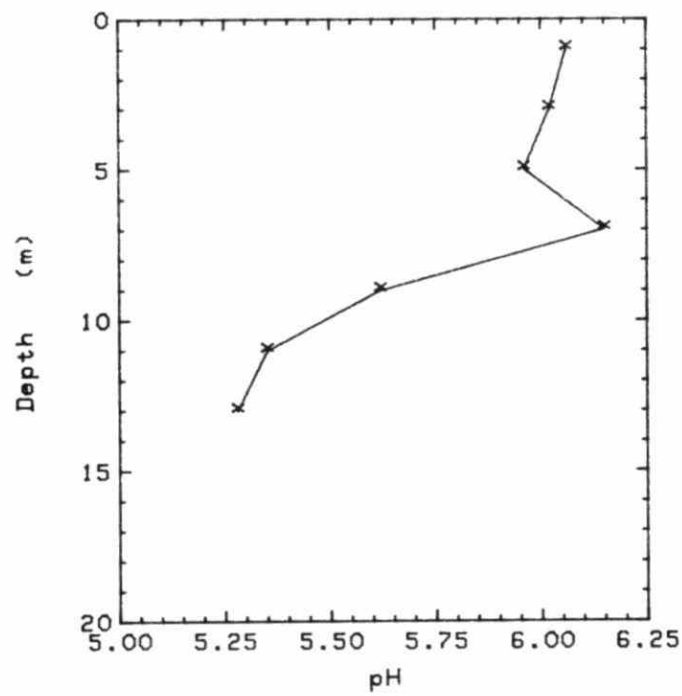



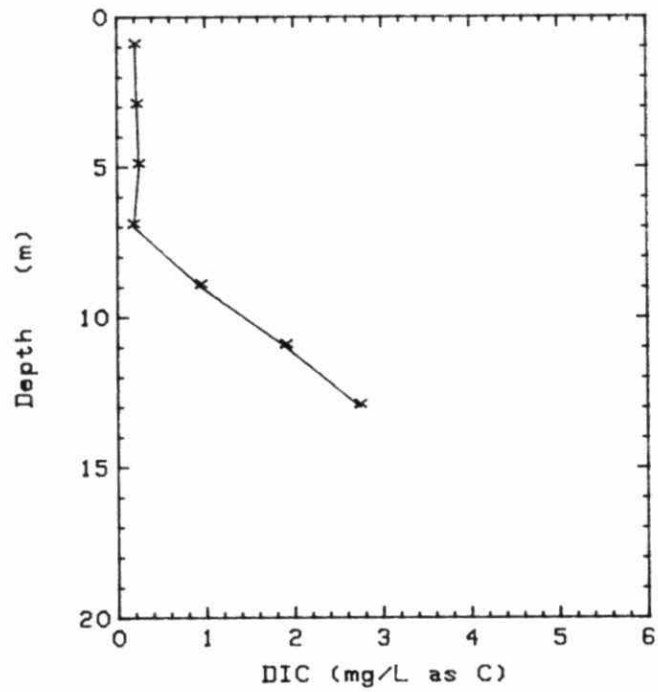



# LEONARD 84.08.02



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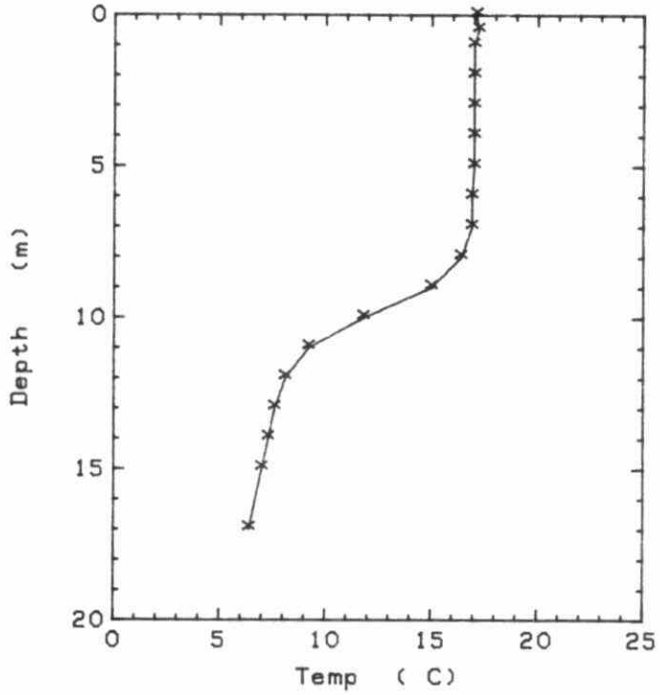


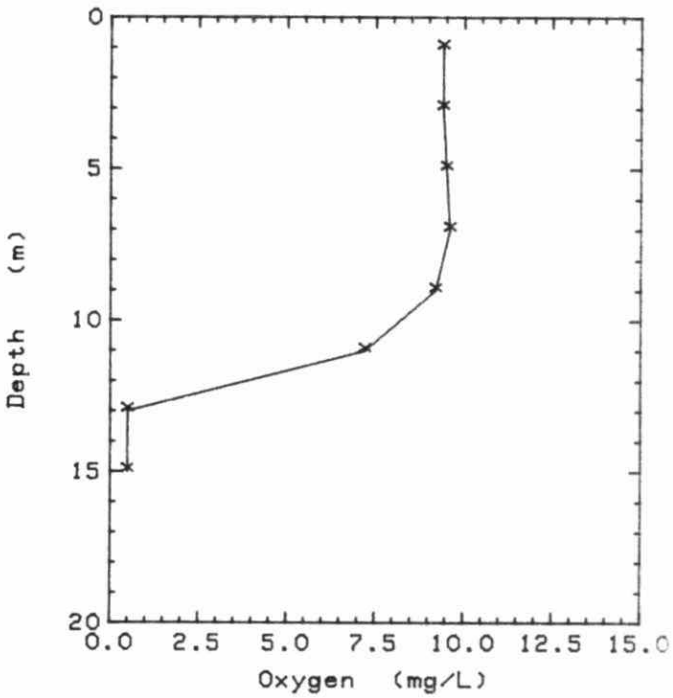


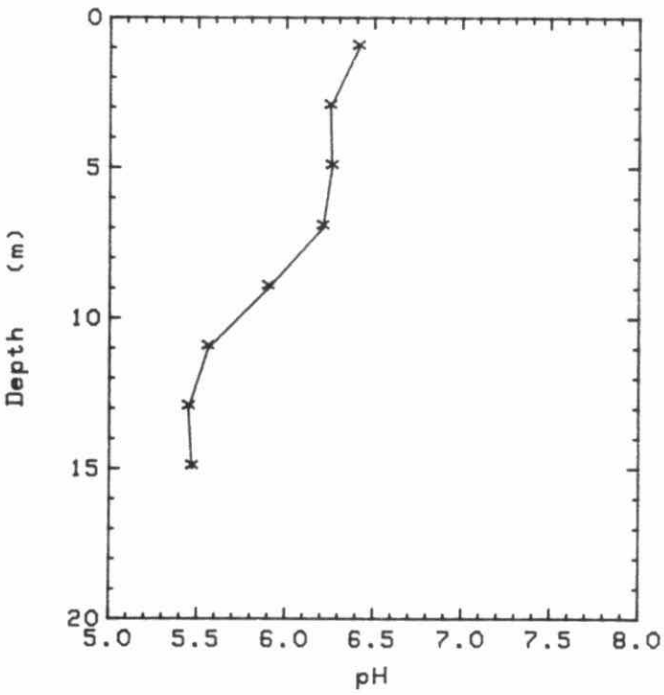


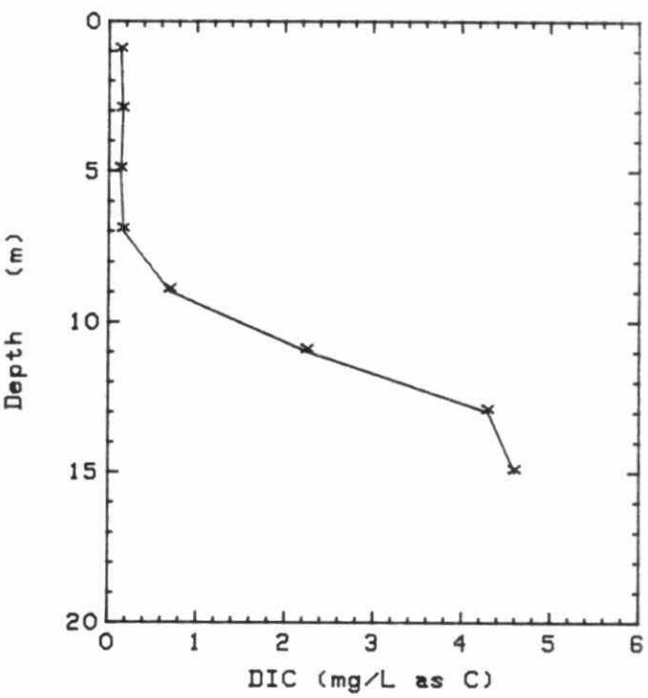

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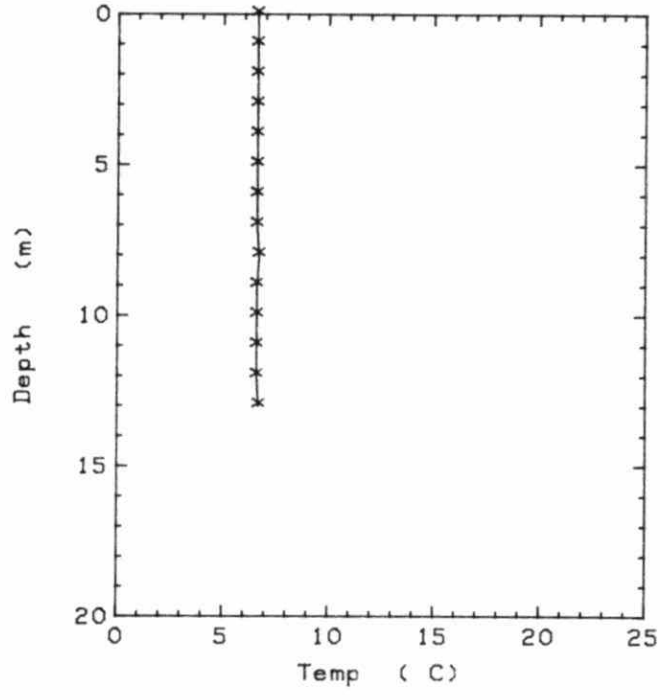
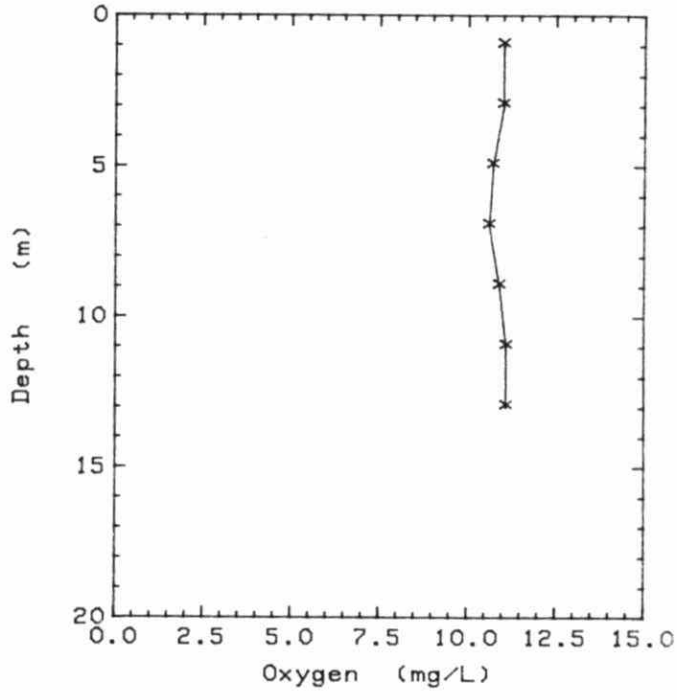
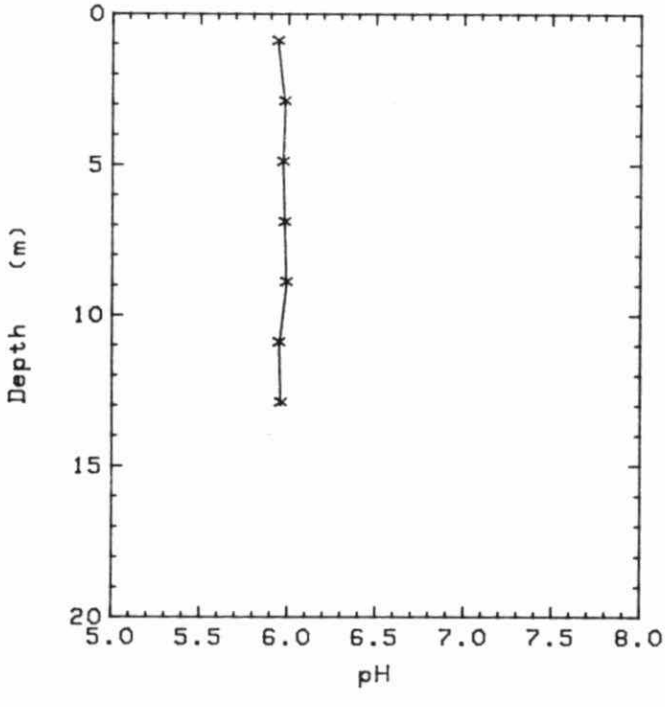
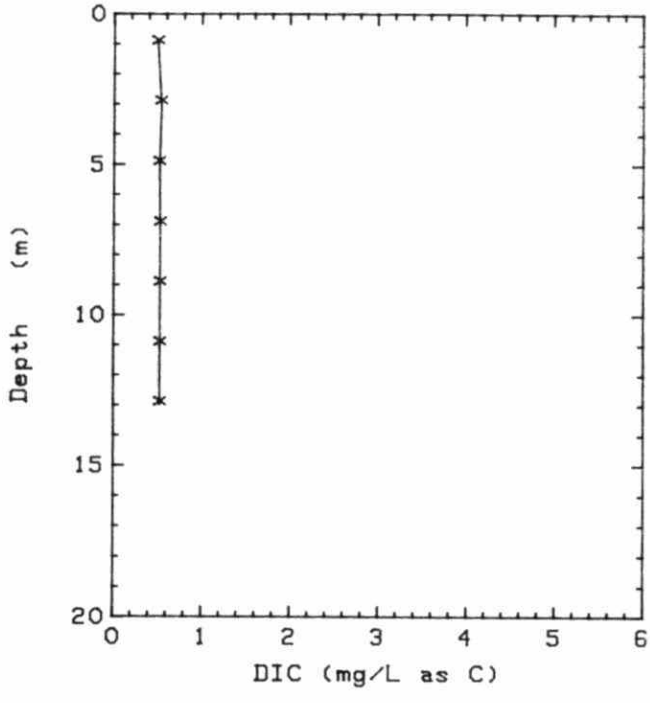
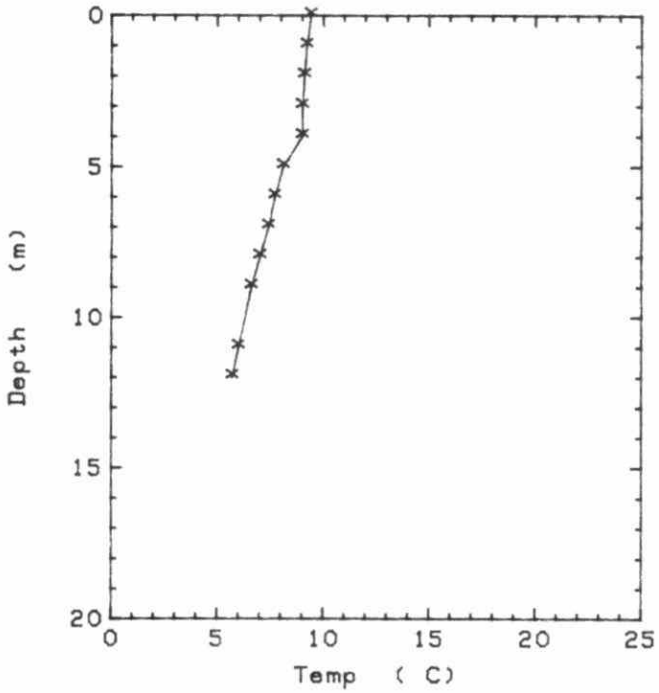


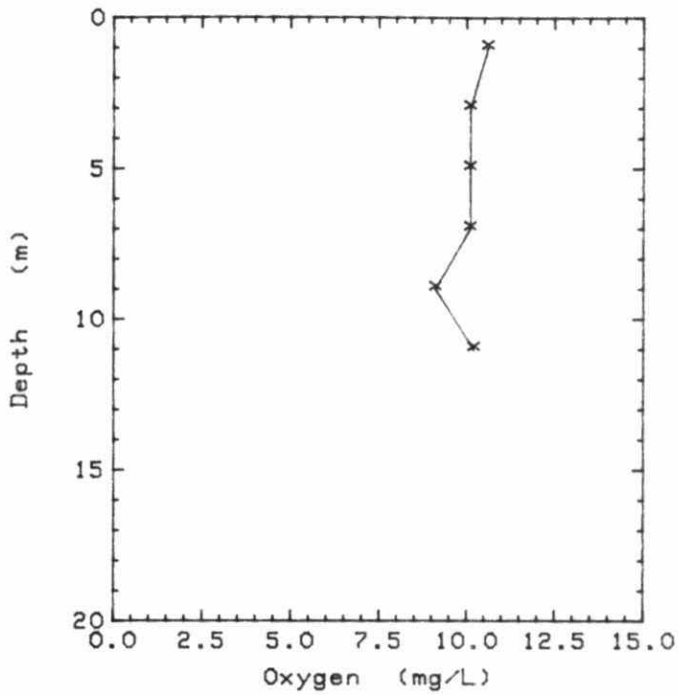



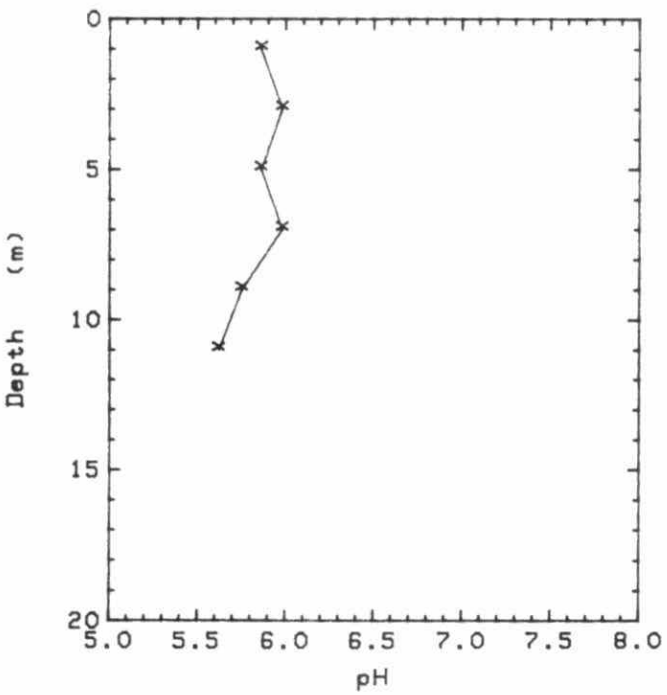



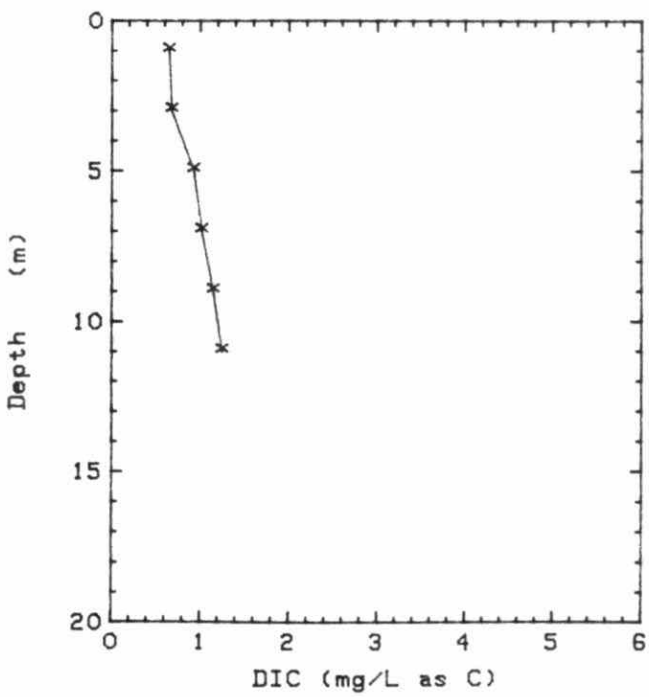



# LEONARD 85.05.07

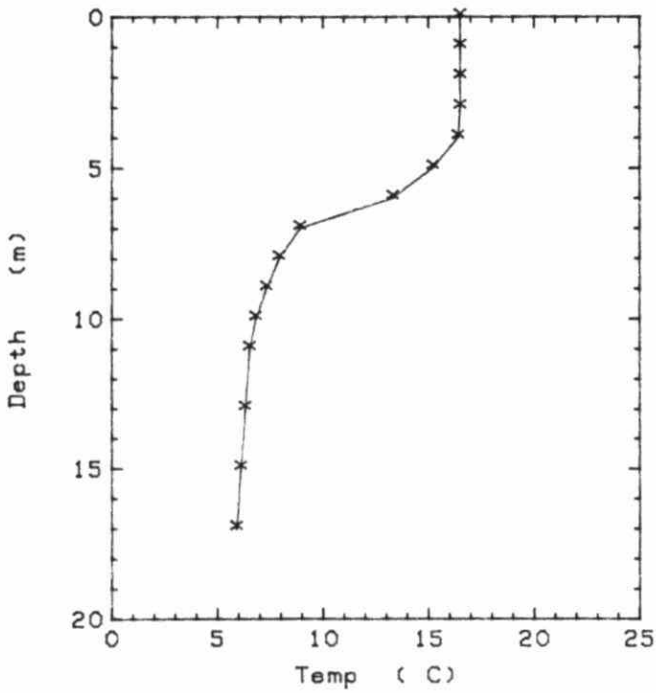


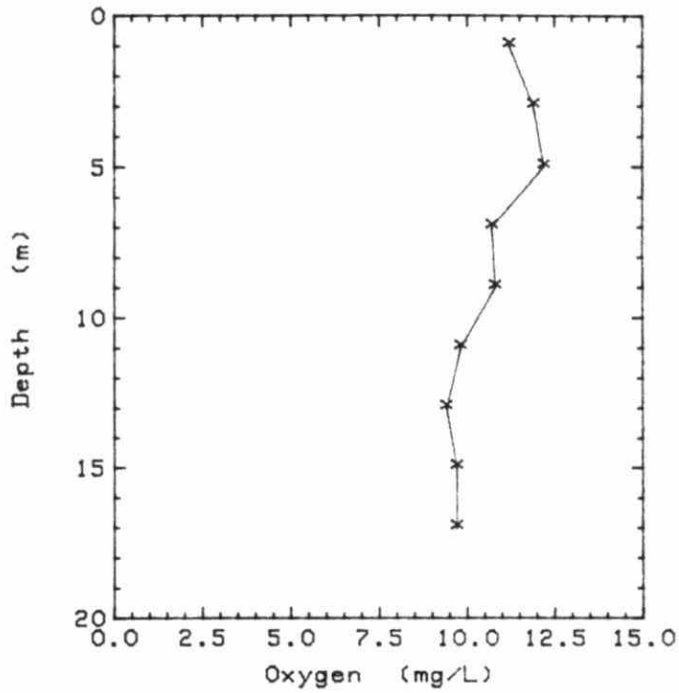



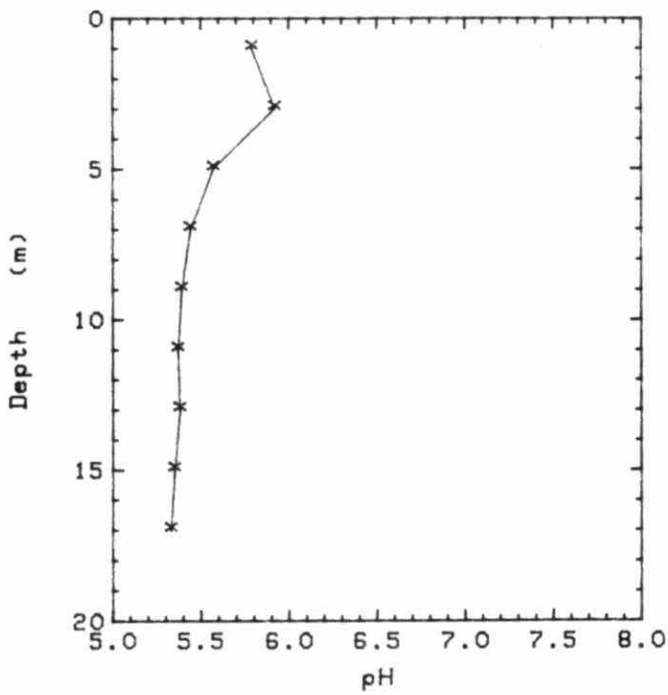



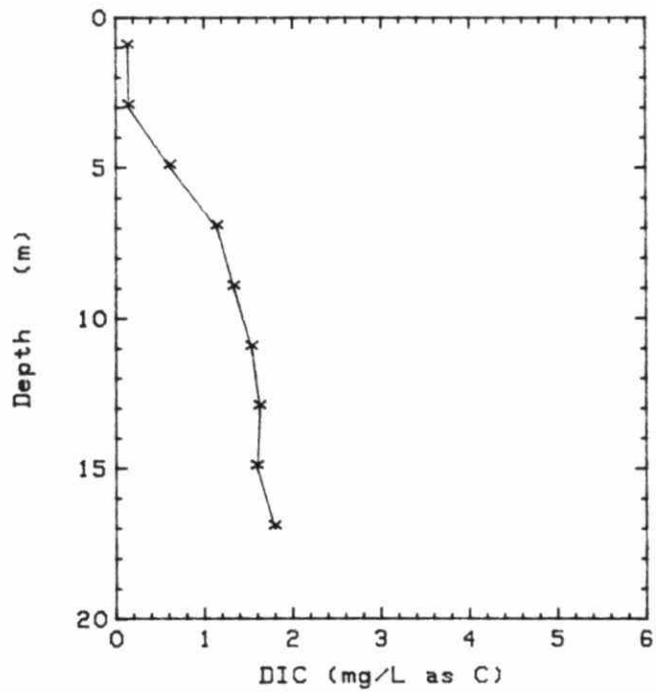



# LEONARD 85.05.30

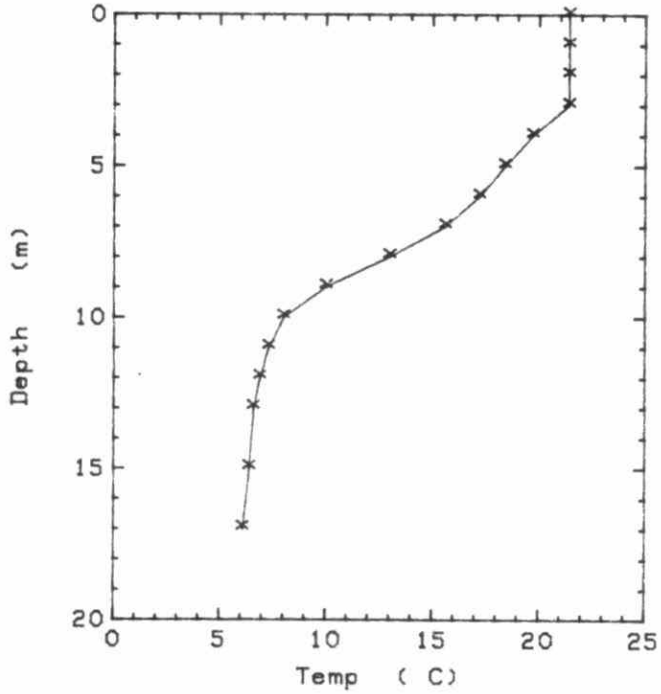


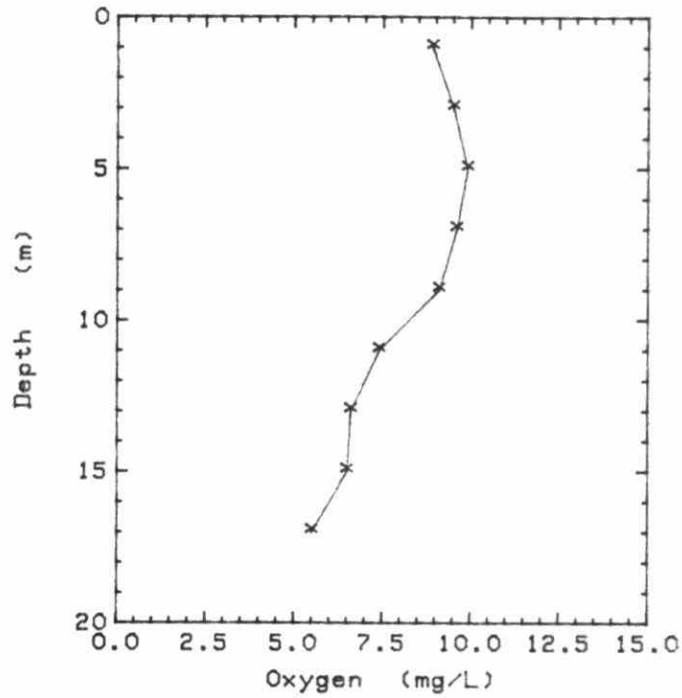



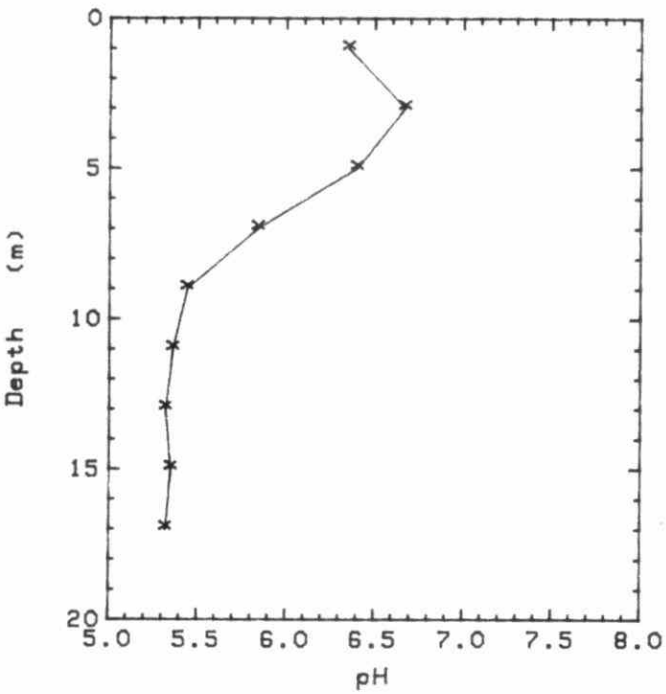



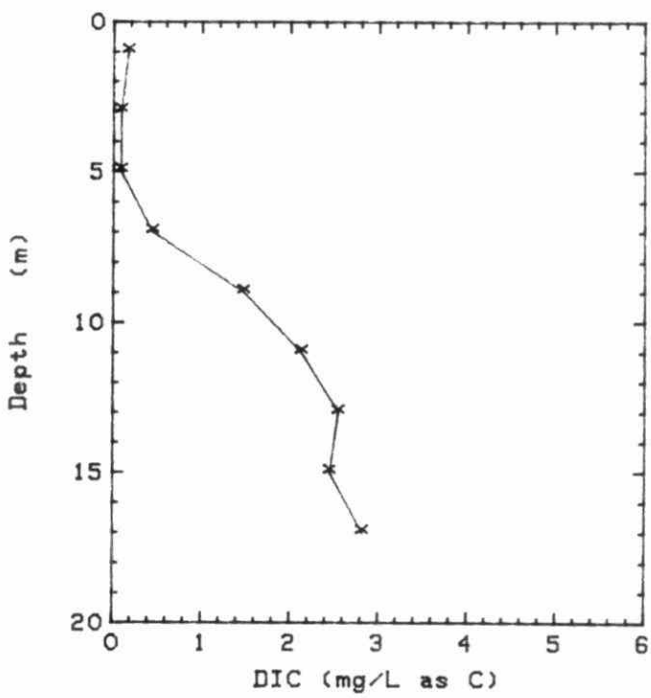



# LEONARD 85.07.03

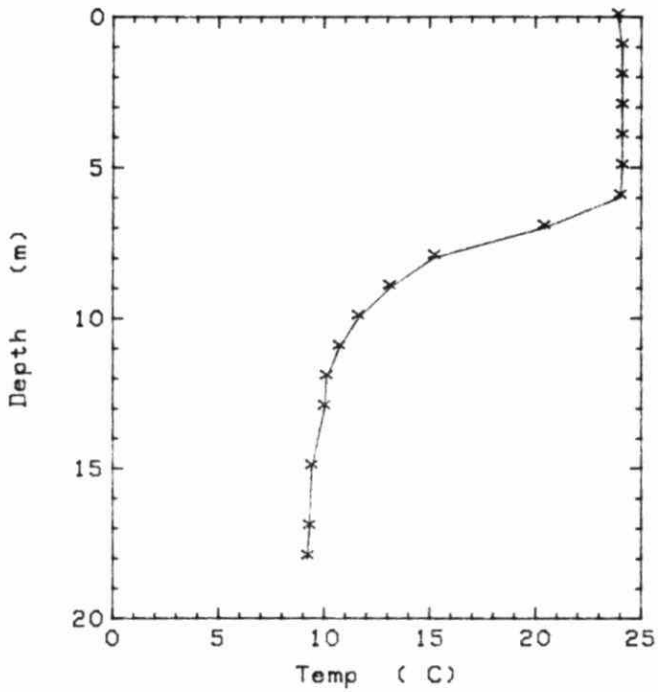


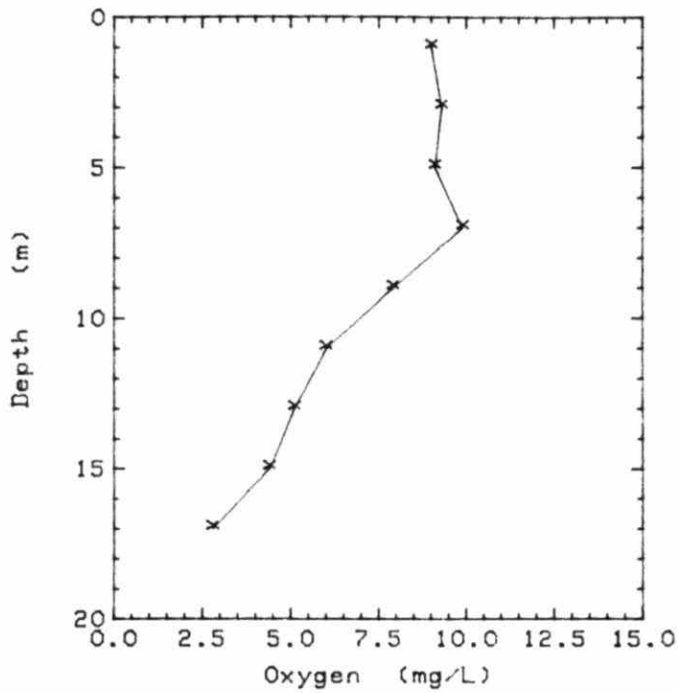



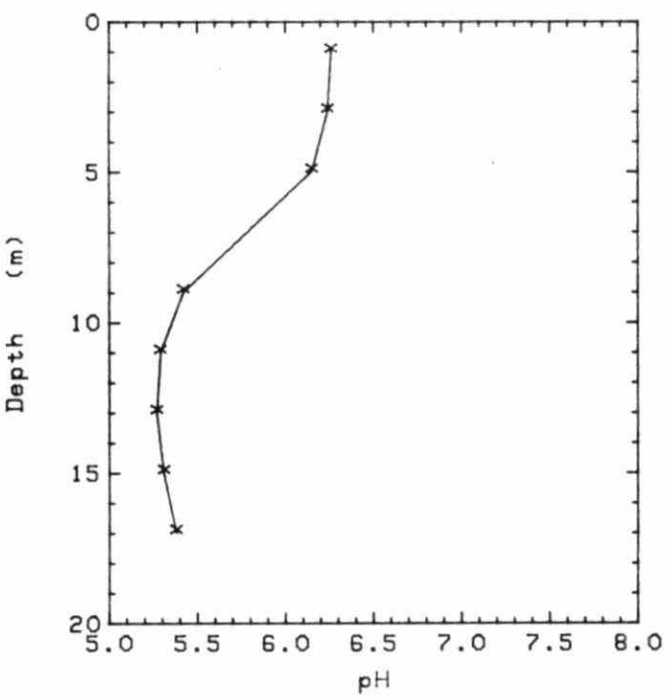



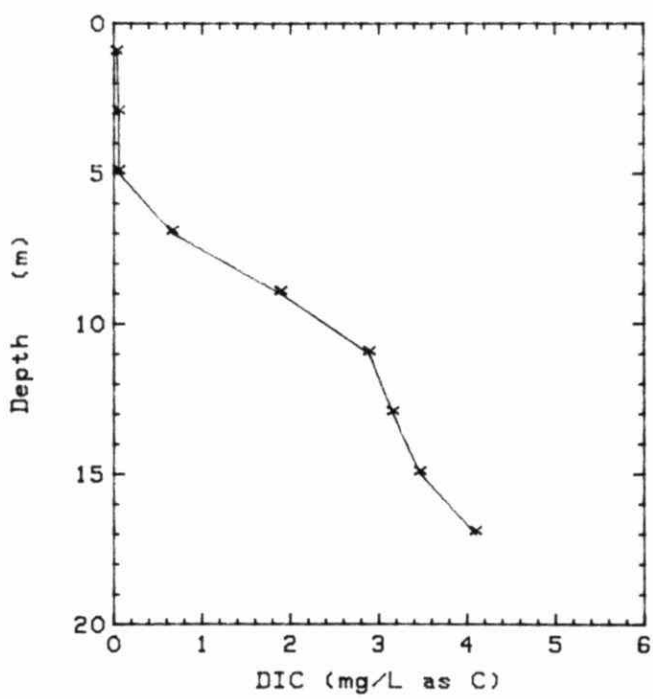



# LEONARD 85.08.01

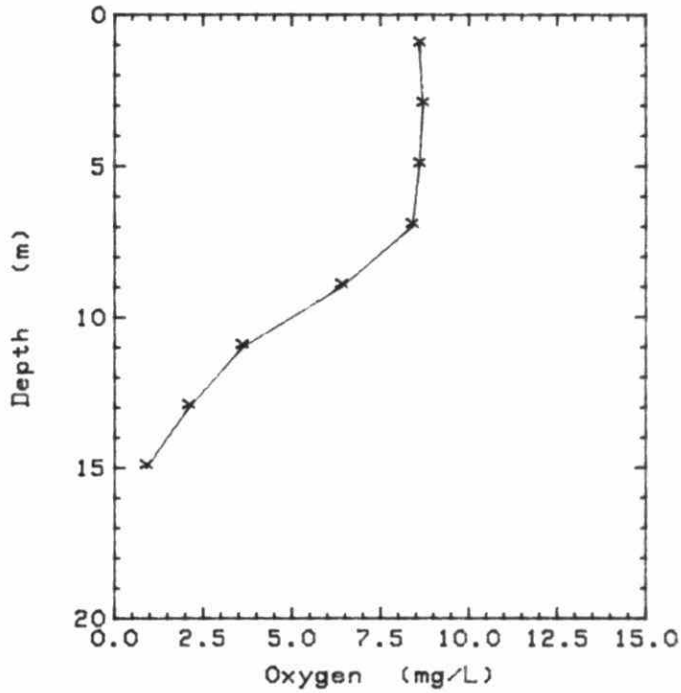


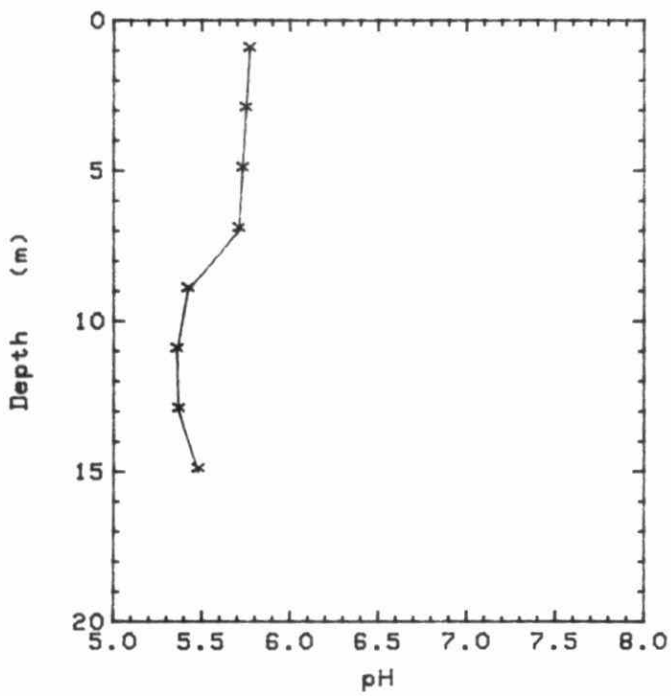



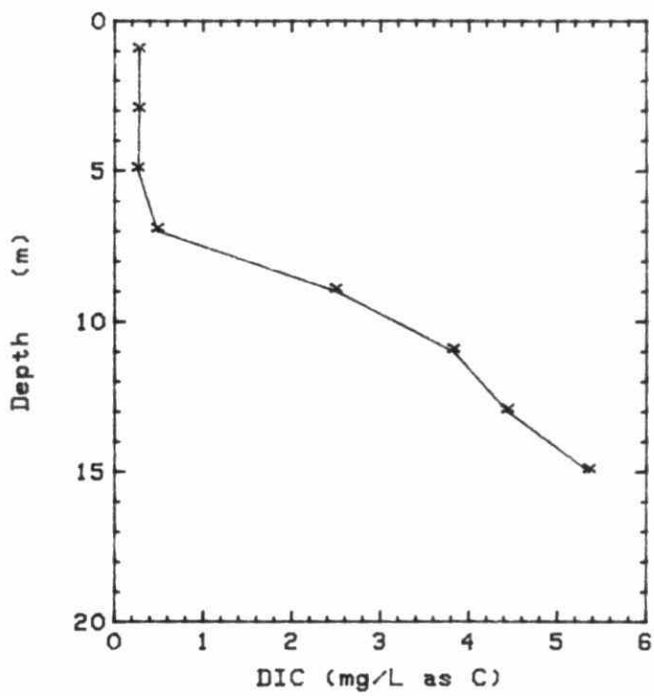



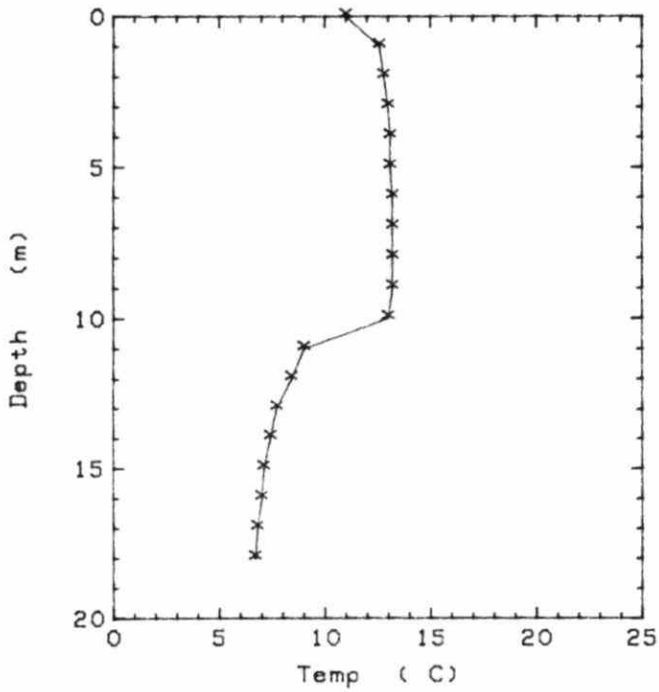
# LEONARD 85.09.04

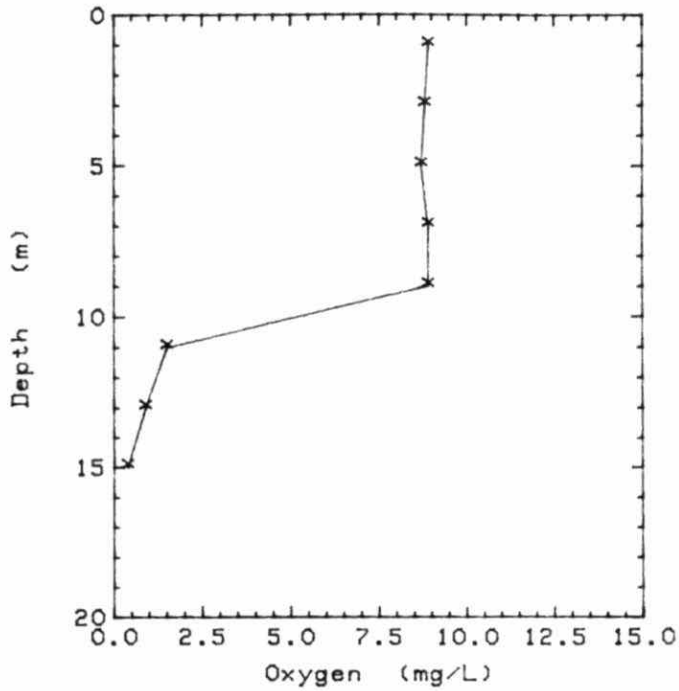


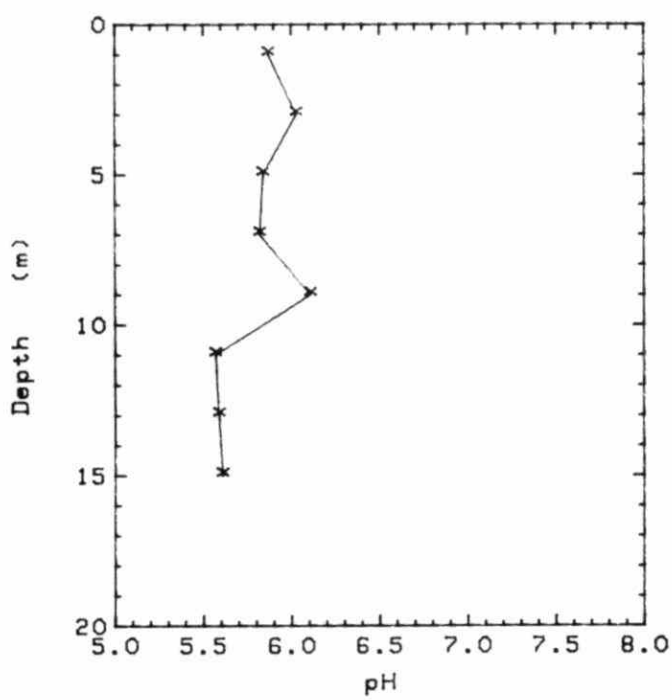



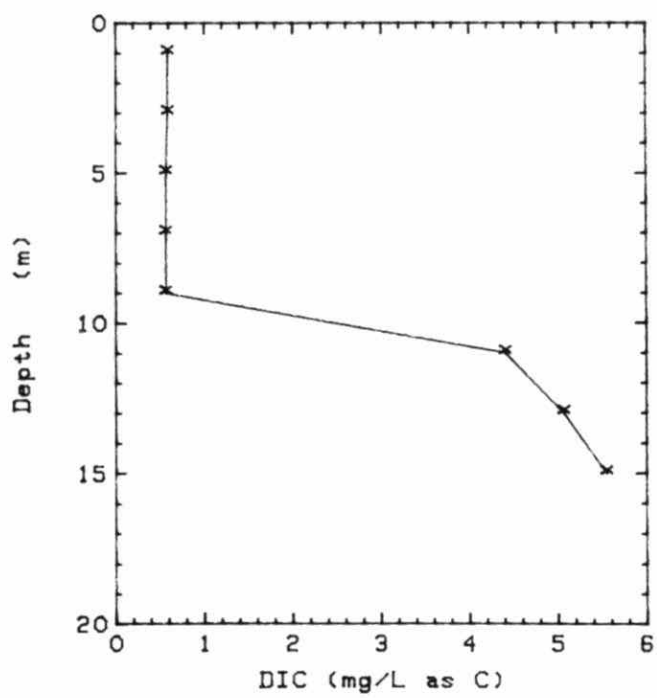



# LEONARD 85.10.10

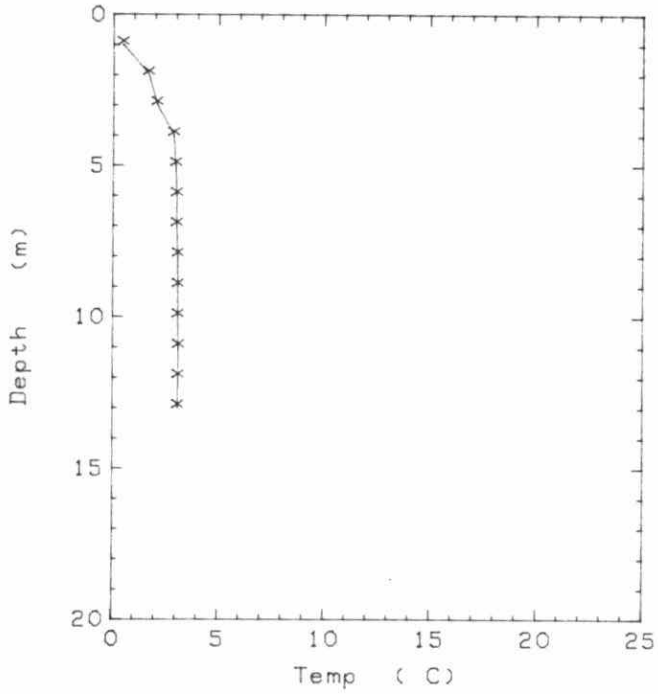


McKAY 79.02.06



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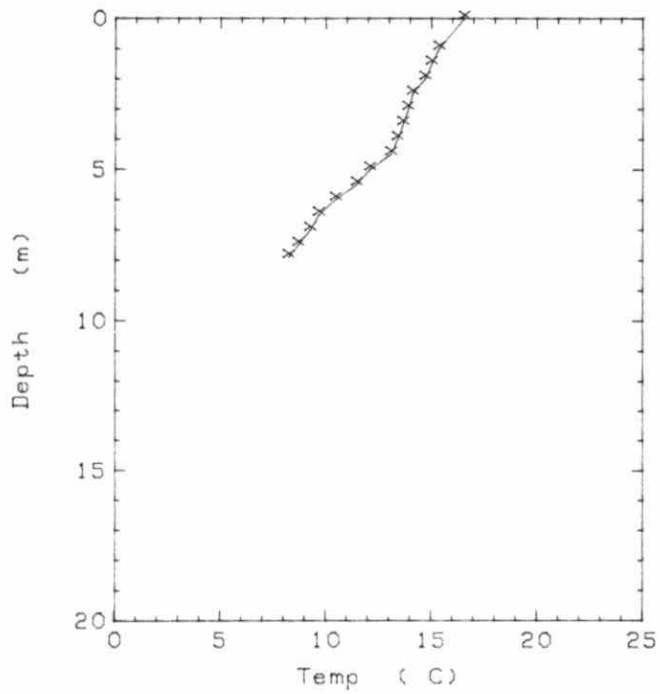
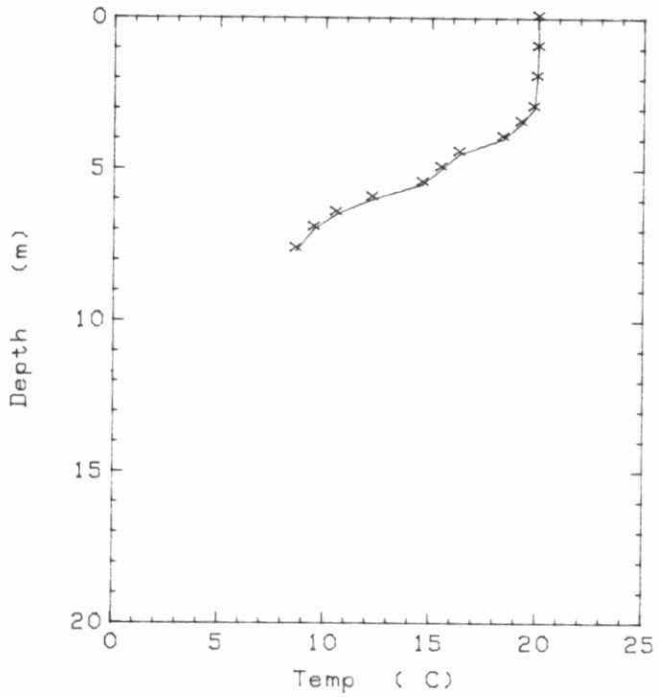
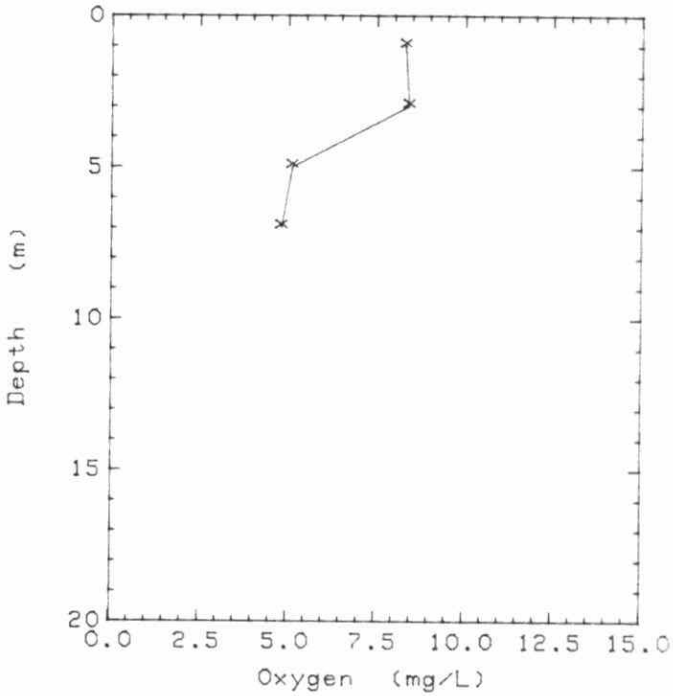
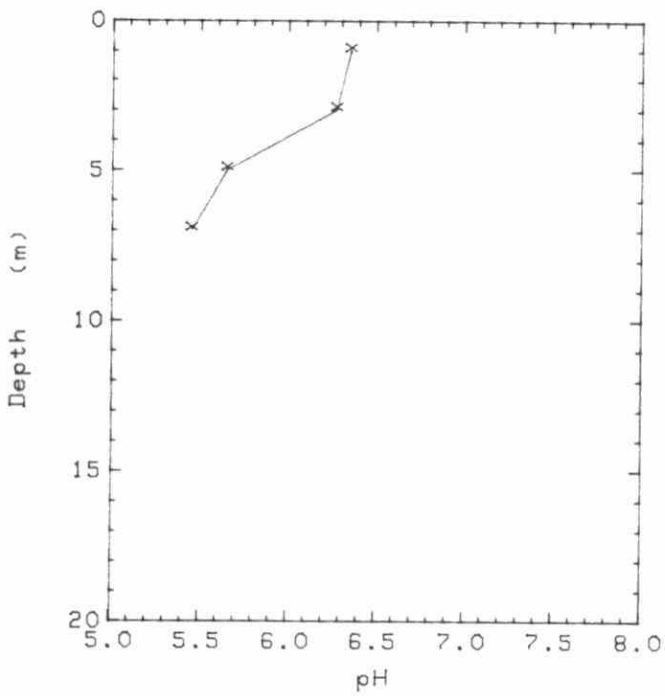


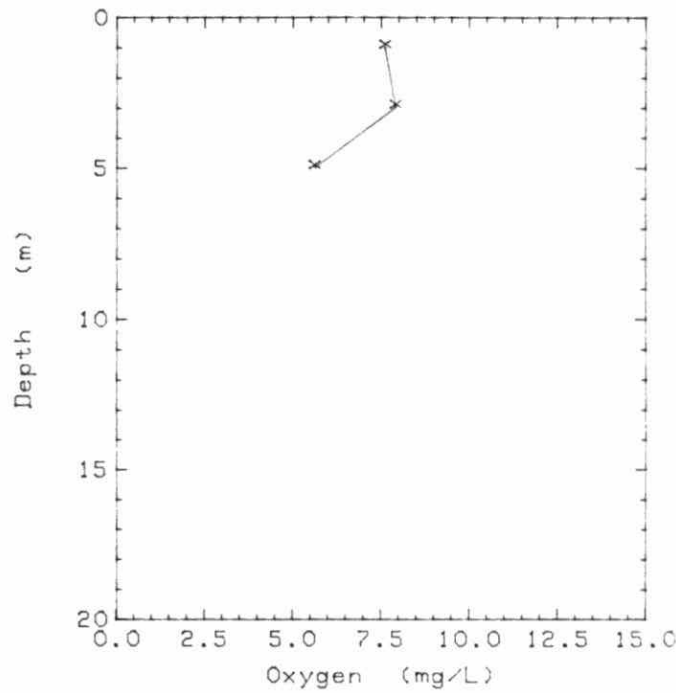
McKAY 79.07.03

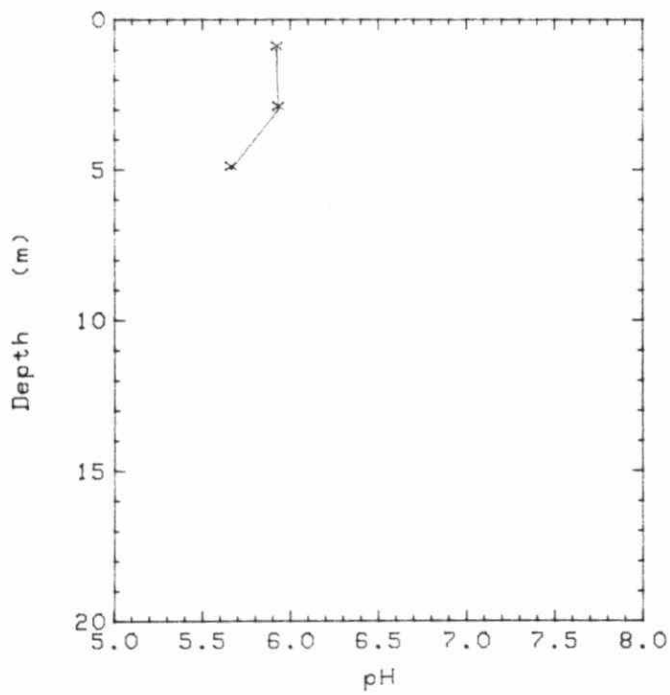


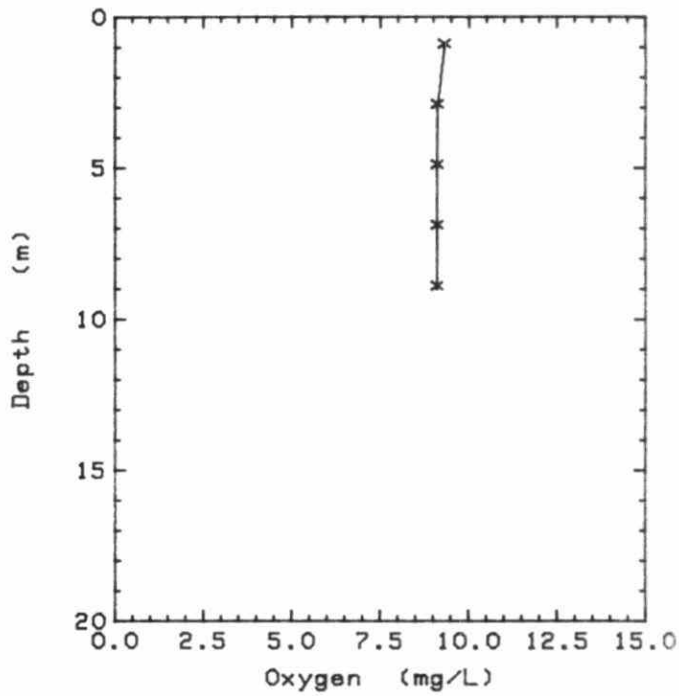



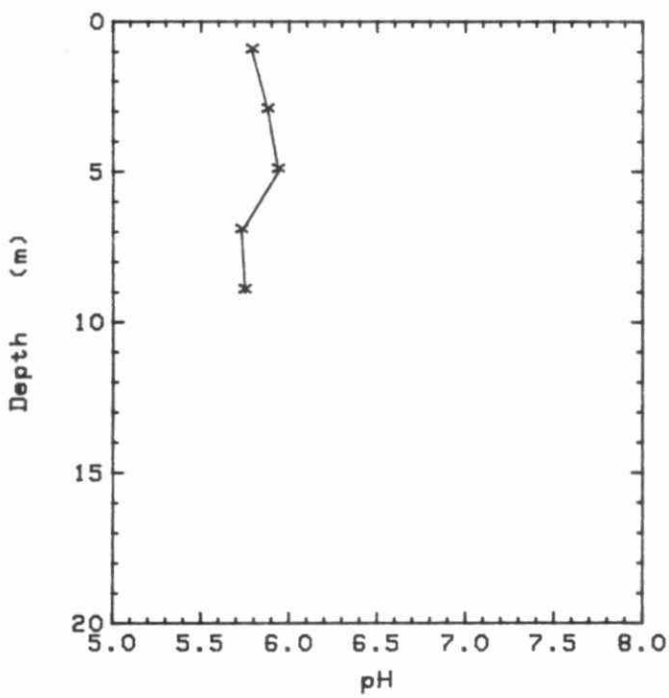
McKAY 79.08.14



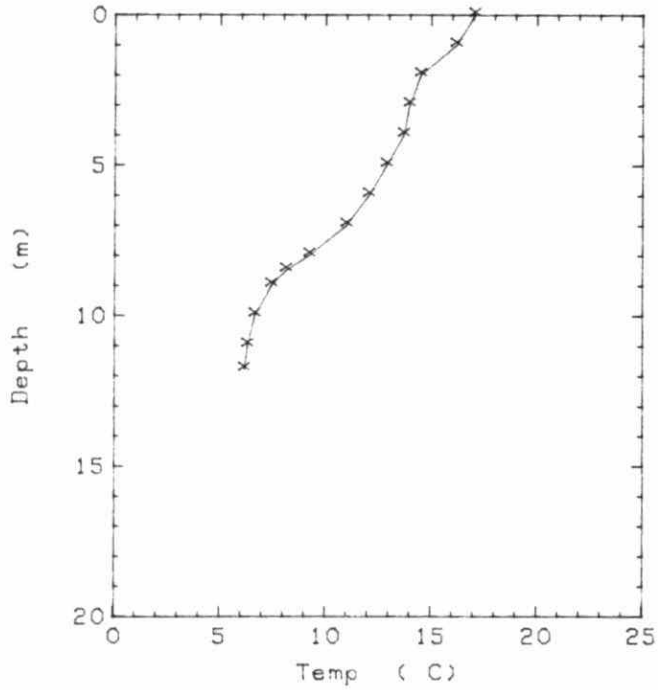



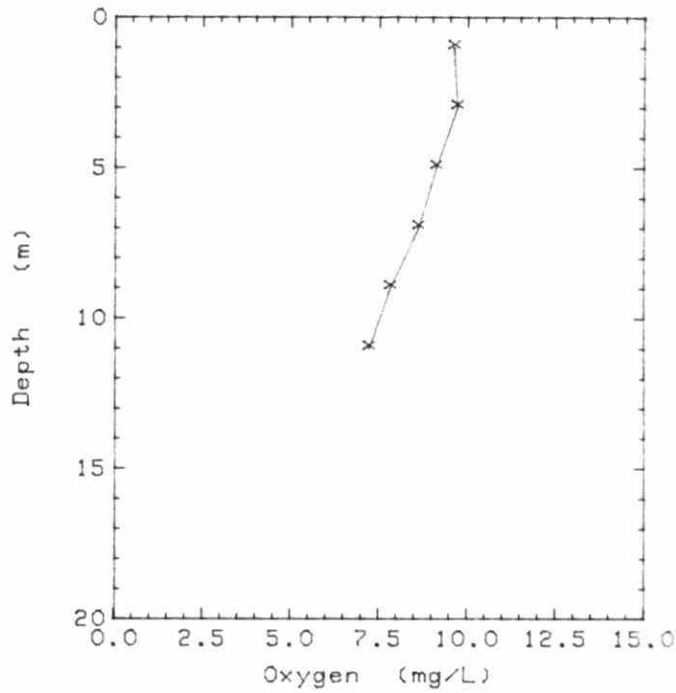
# McKAY 79.10.16

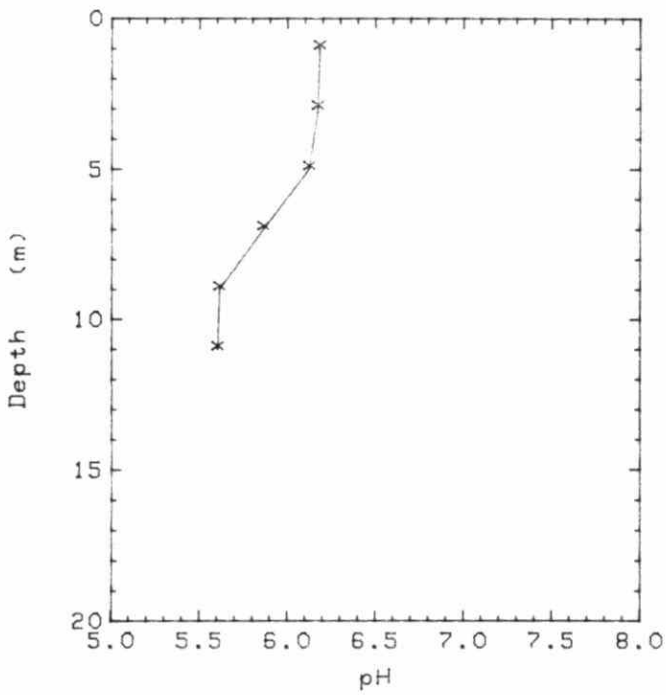


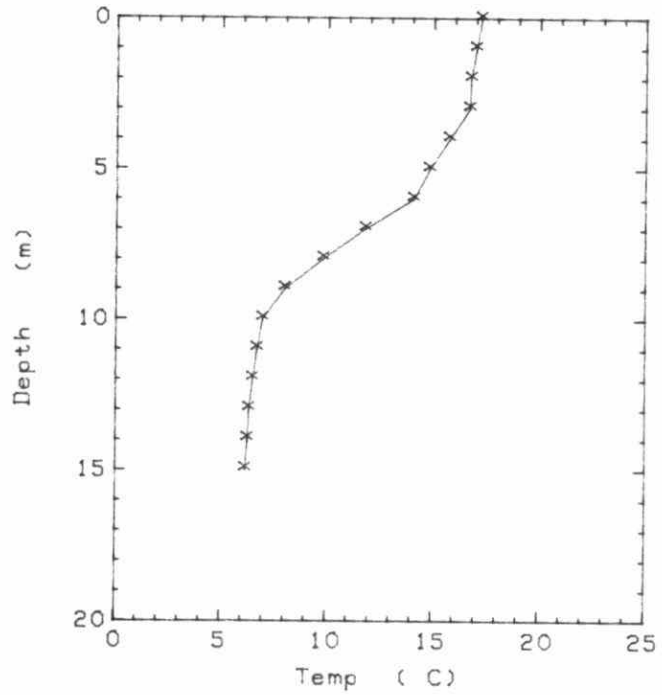
McKAY 80.05.21

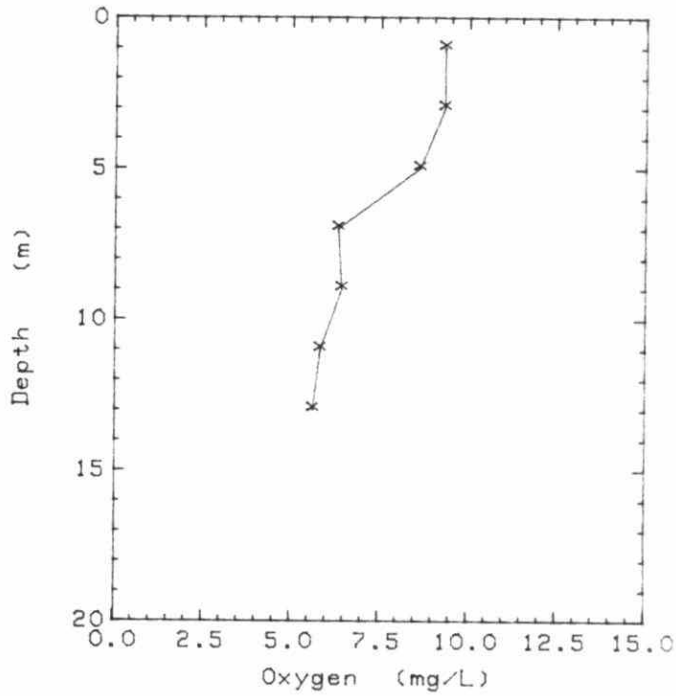


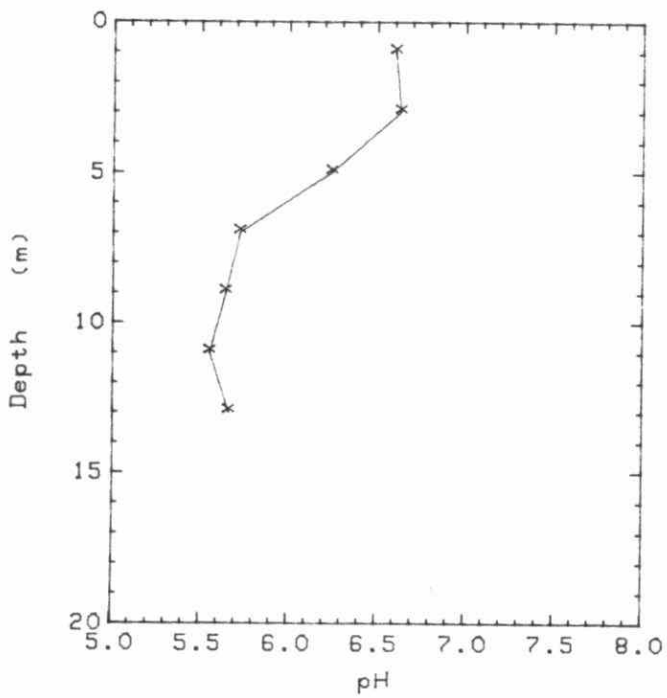



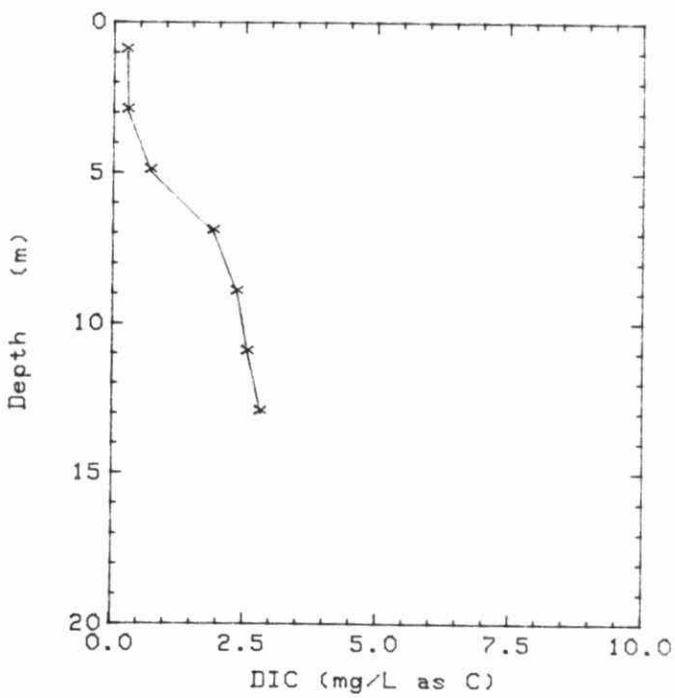



McKAY 80.06.18

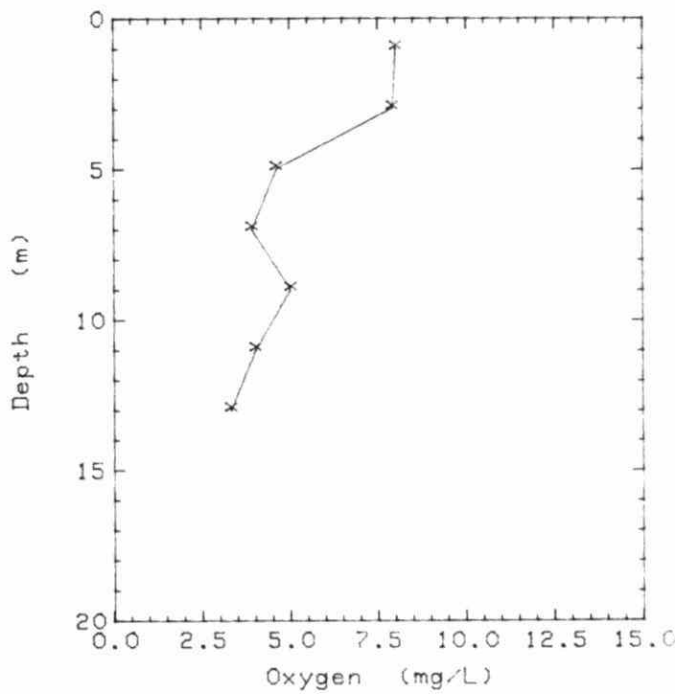


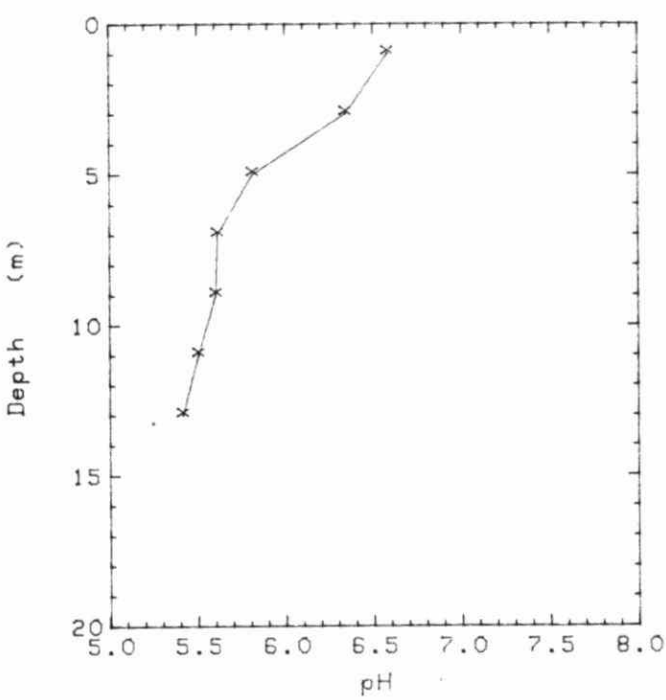



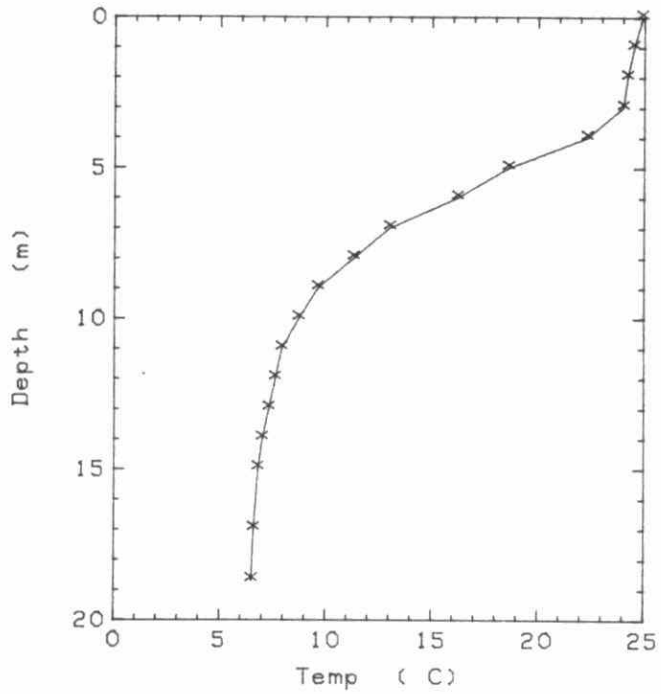



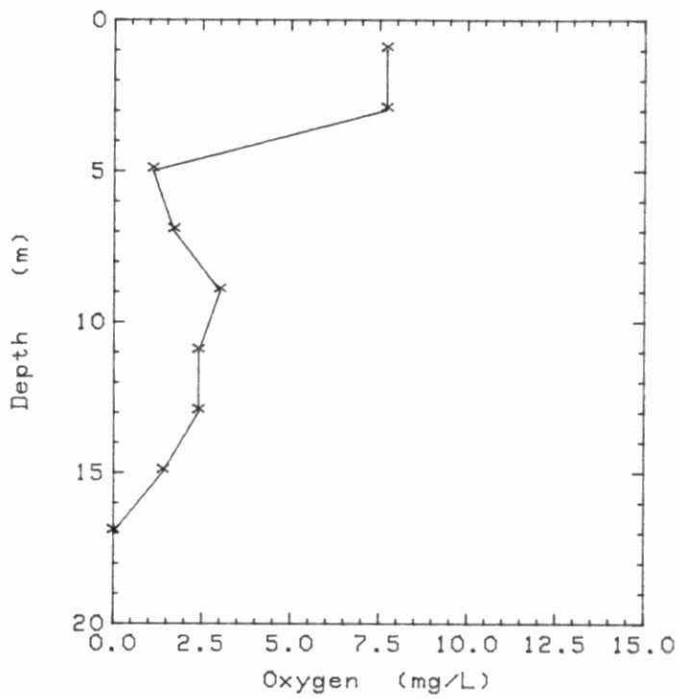
McKAY 80.07.15

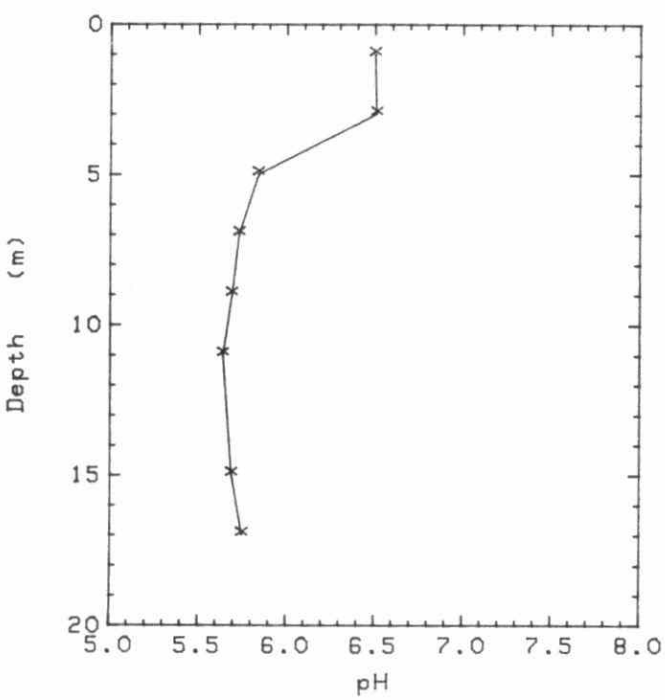


McKAY 80.08.13



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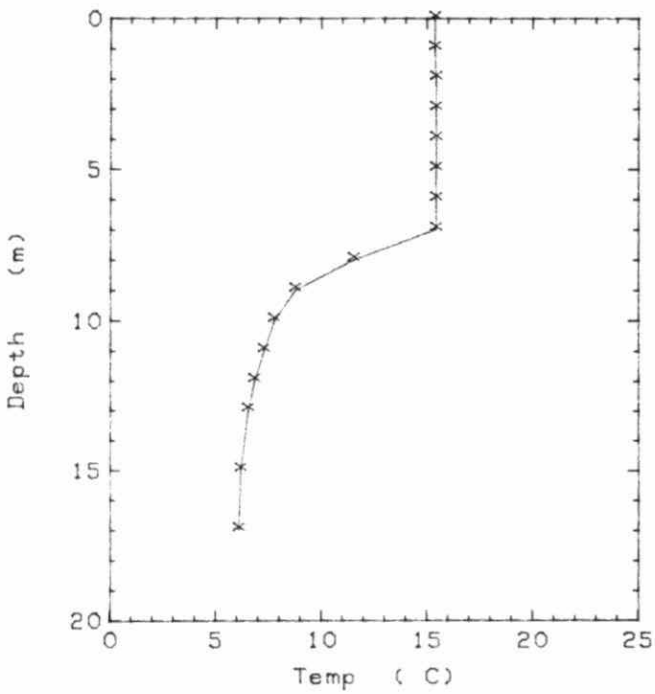


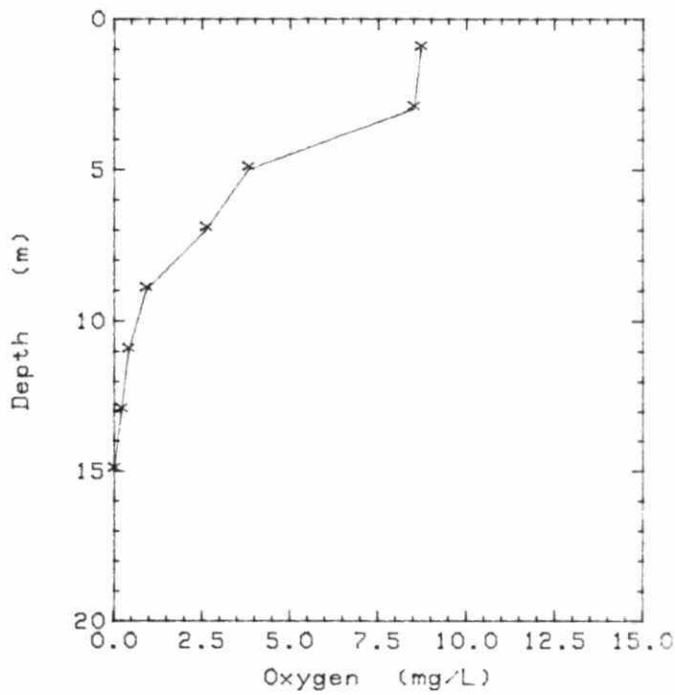


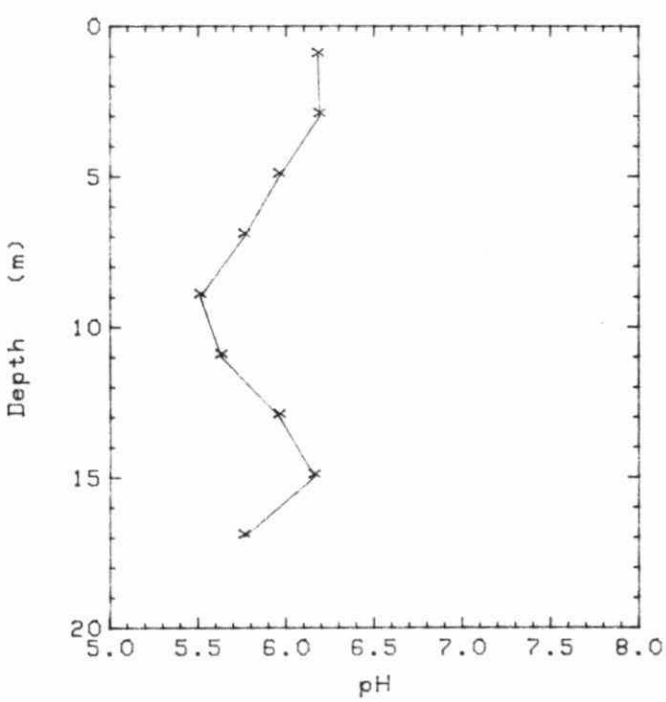

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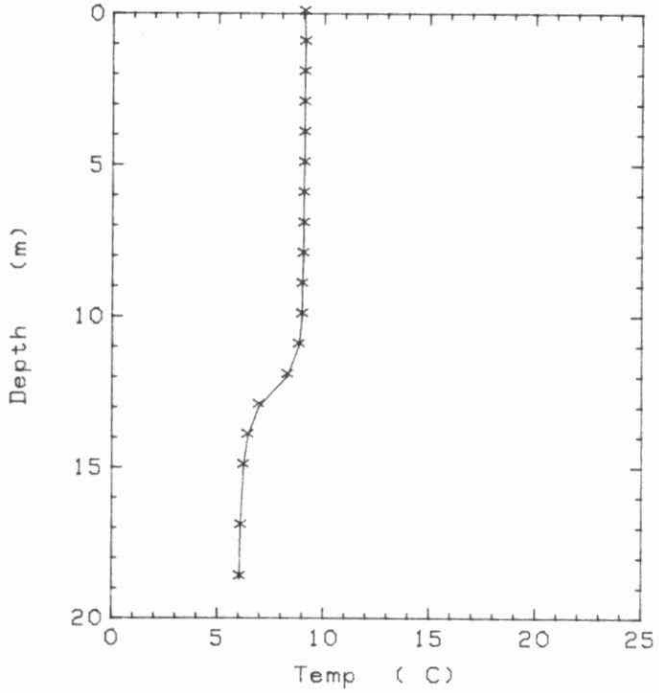


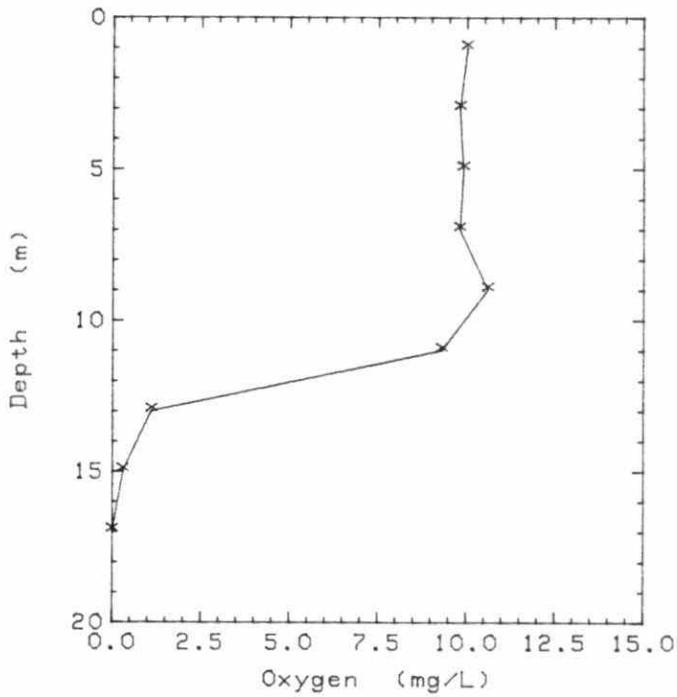


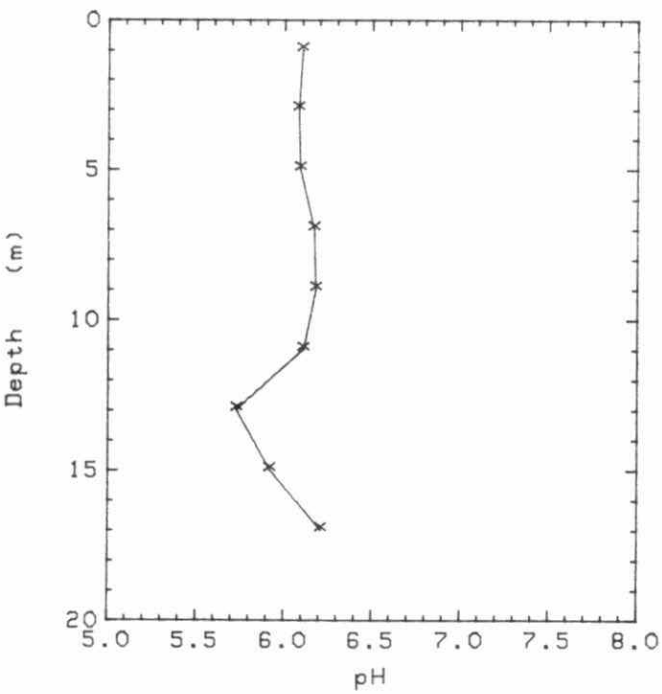

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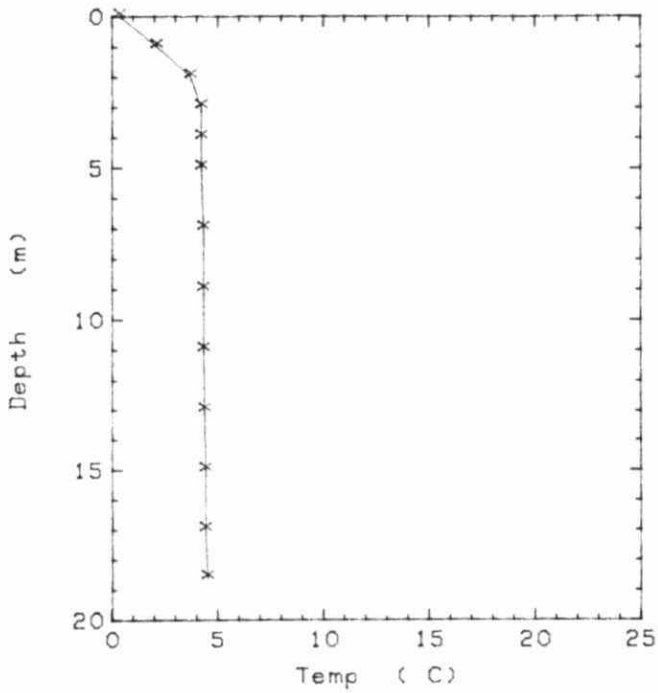


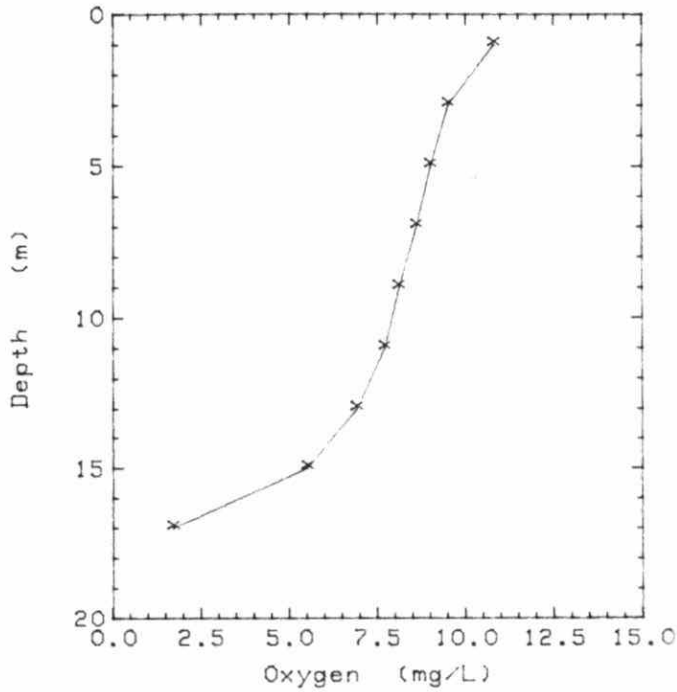


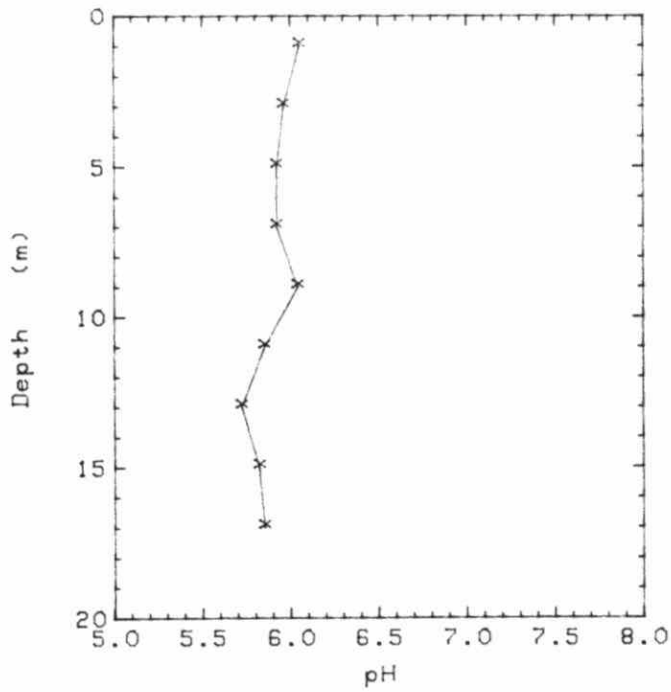

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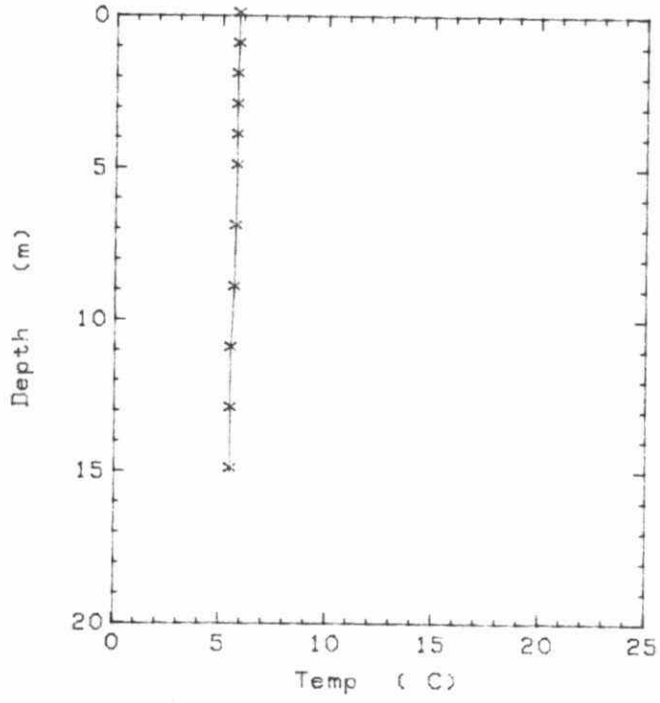
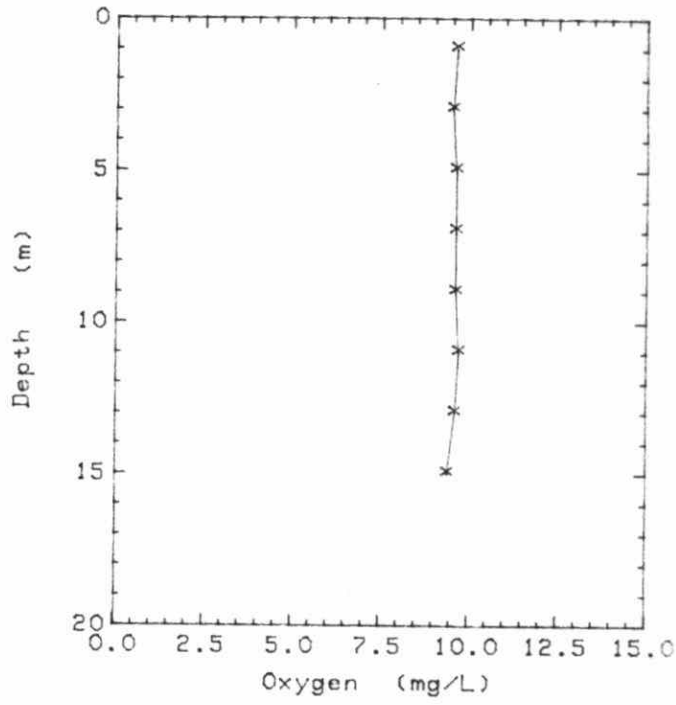
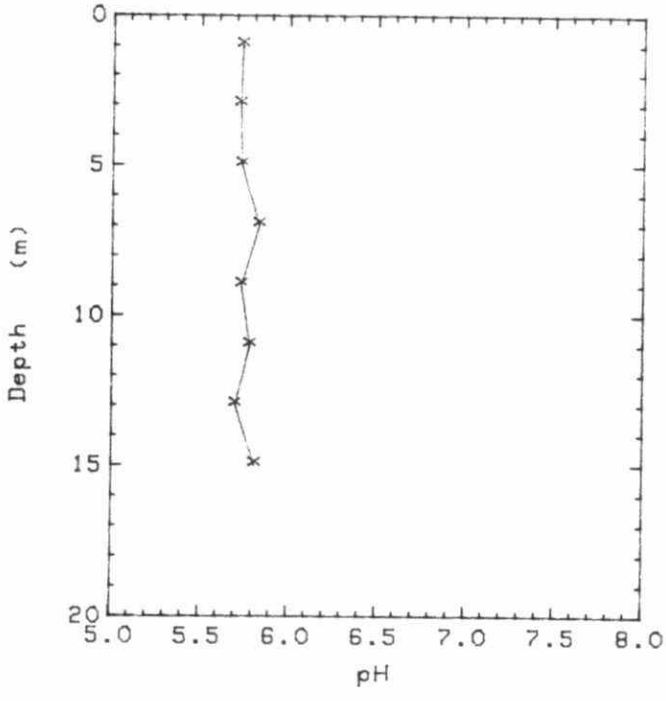
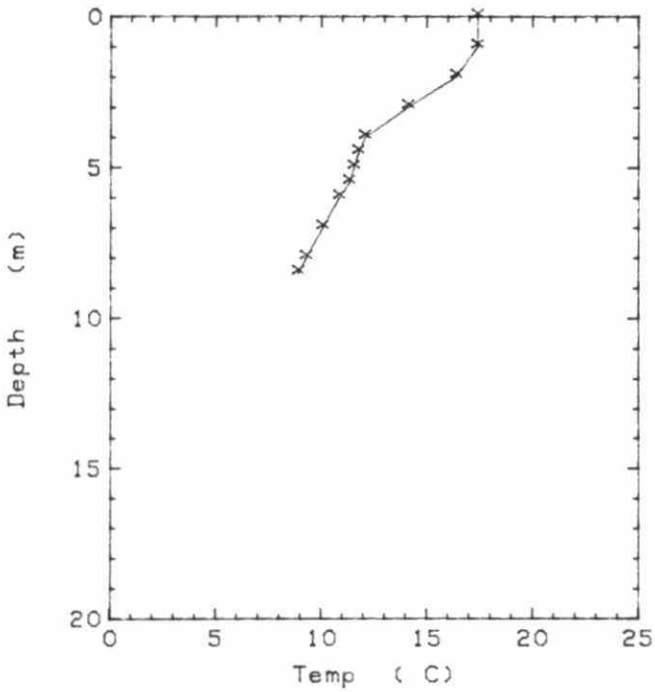
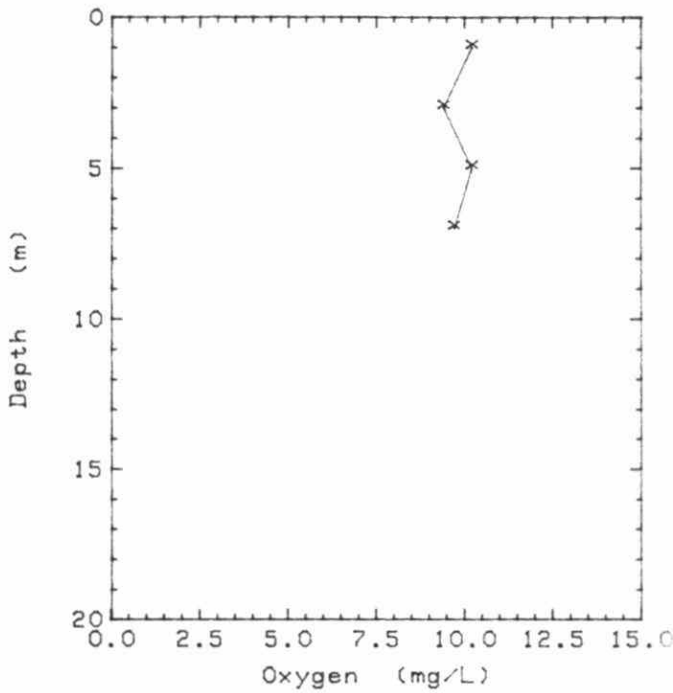


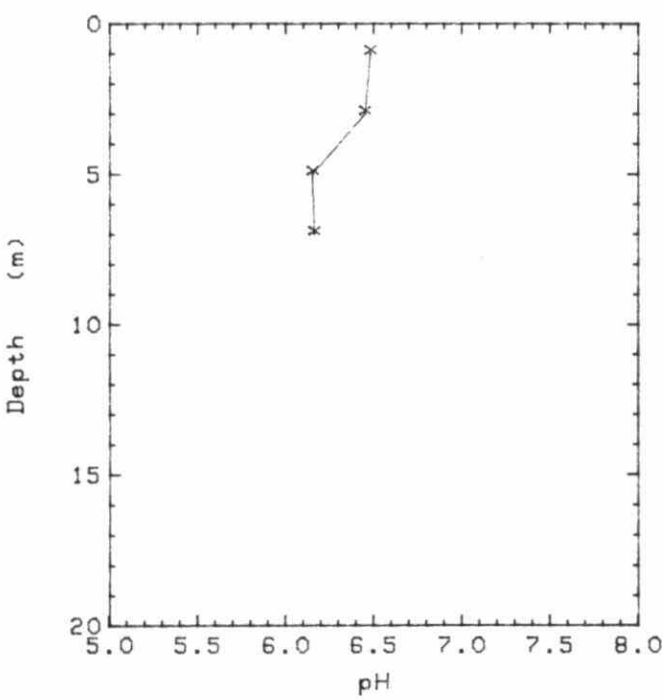



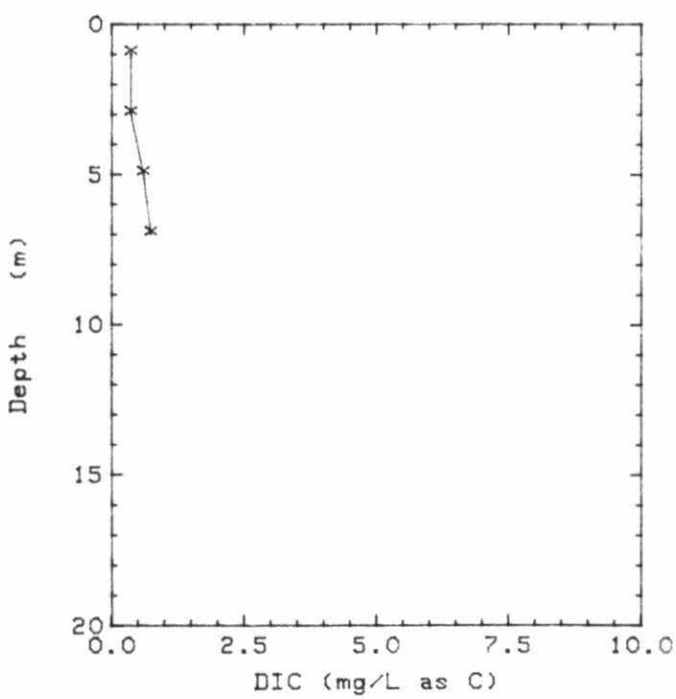



McKAY 81.05.27

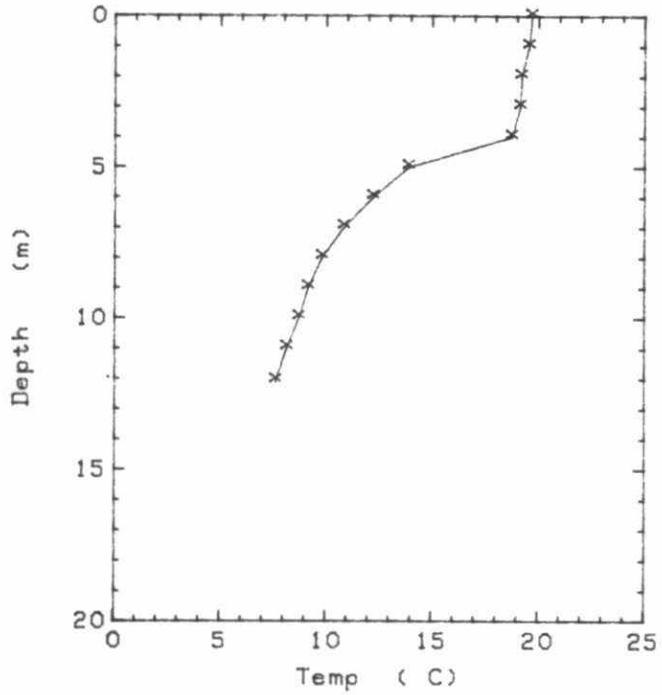


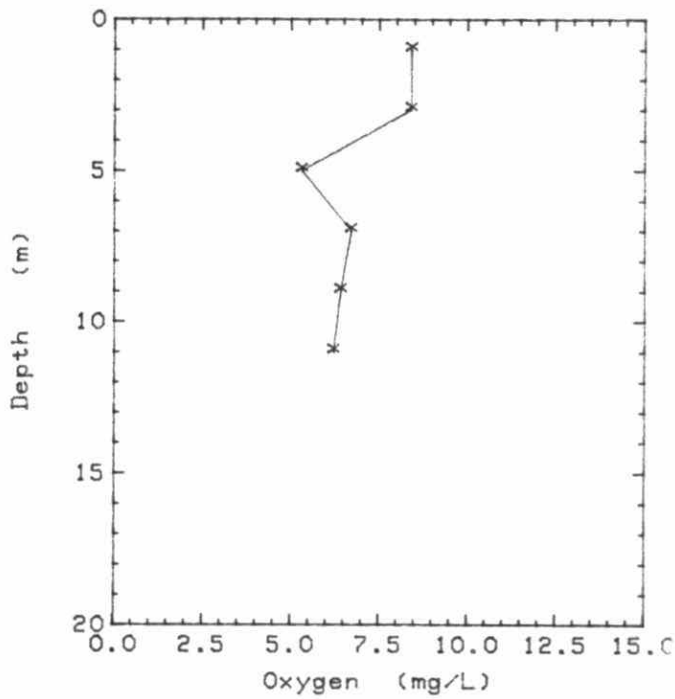



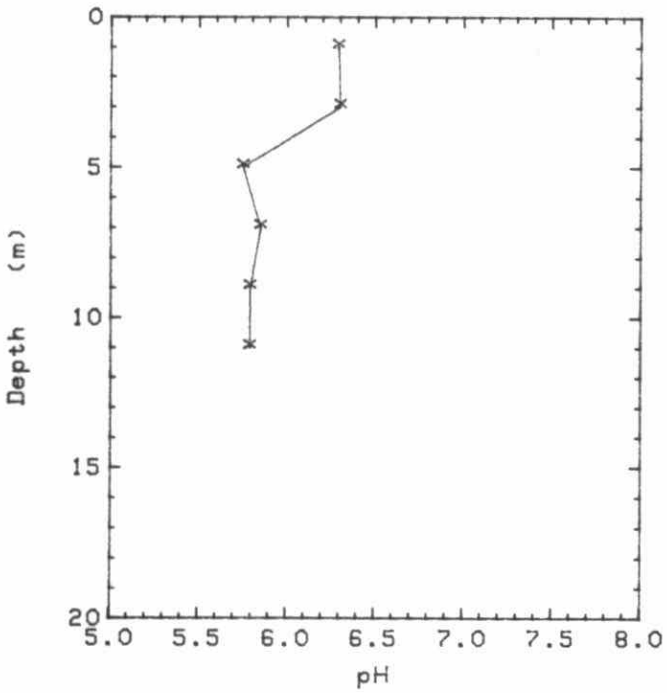



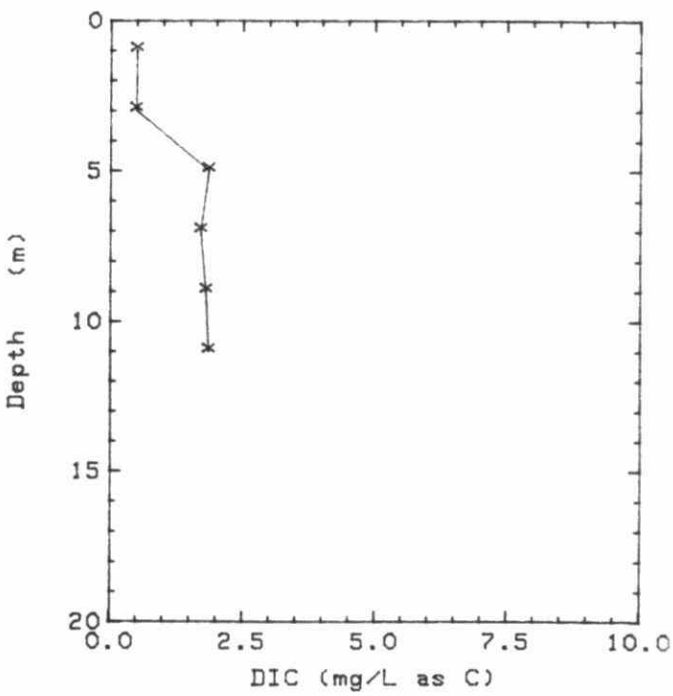



McKAY 81.06.25

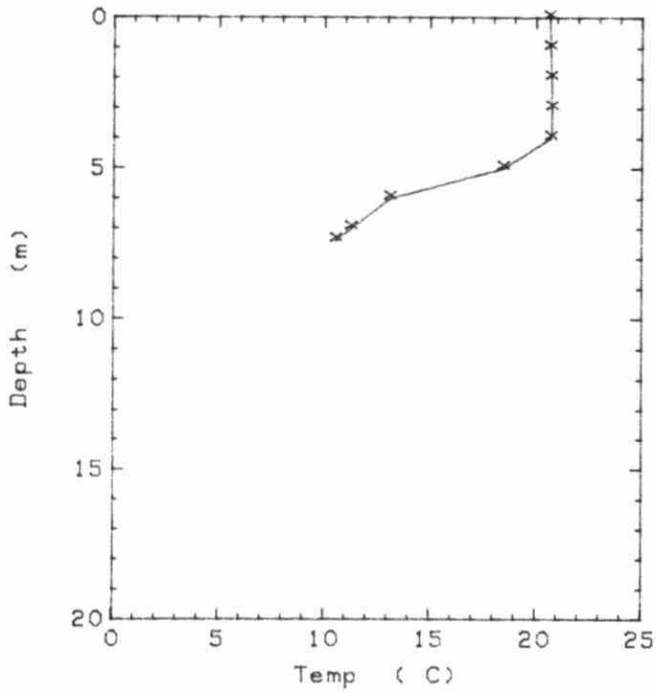


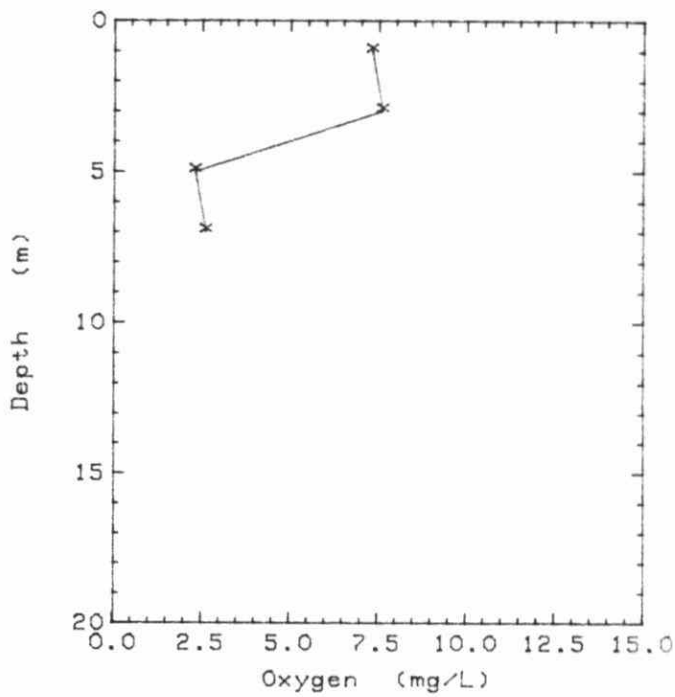



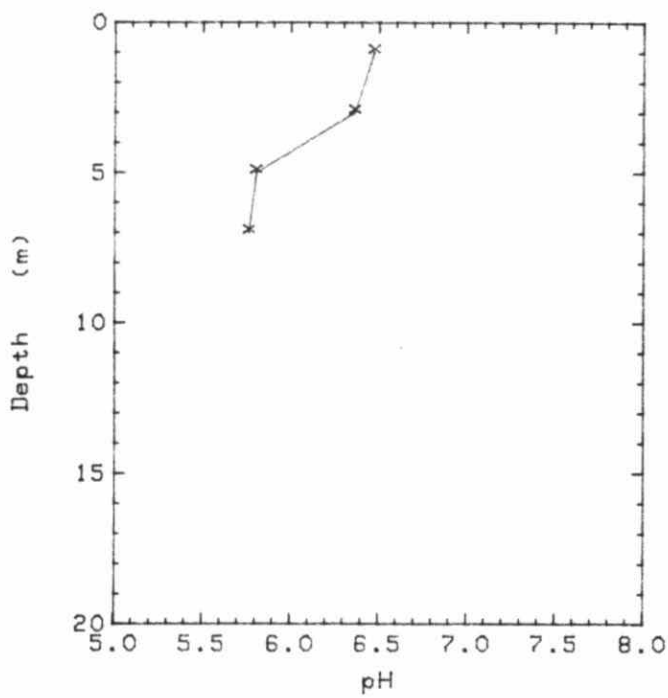



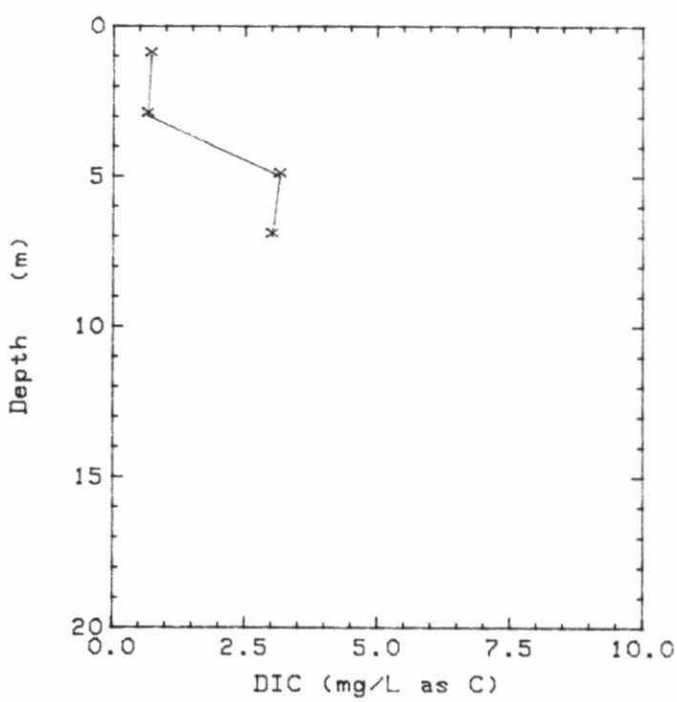



McKAY 81.07.29



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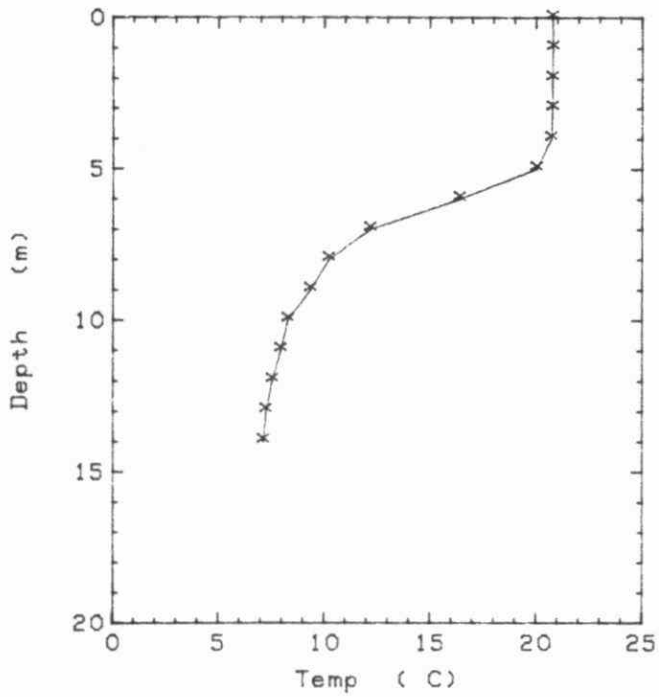
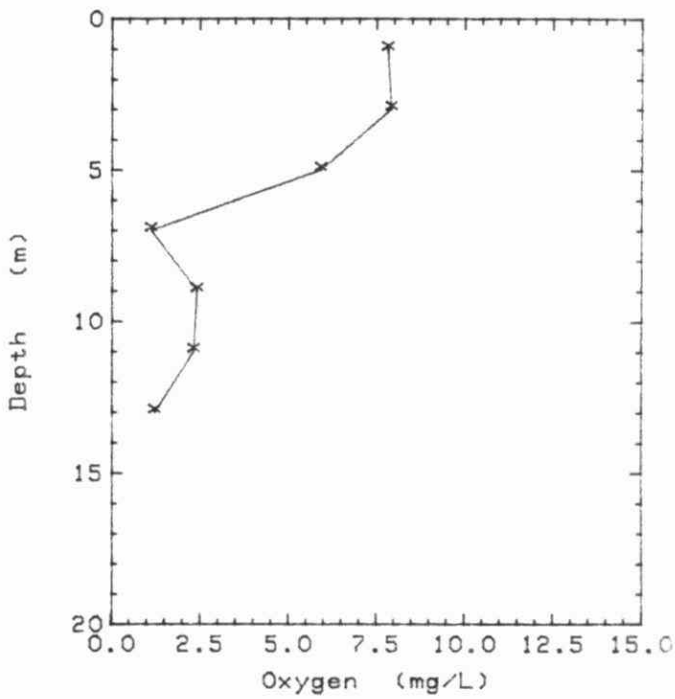
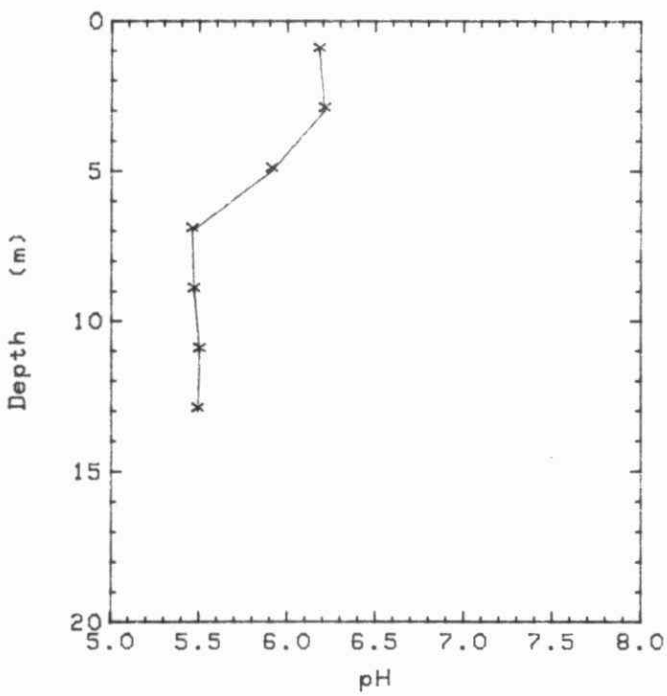
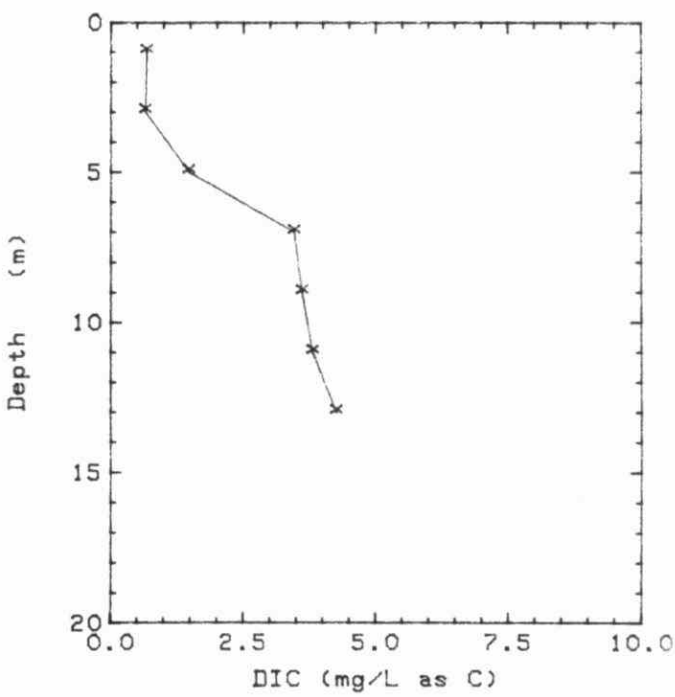
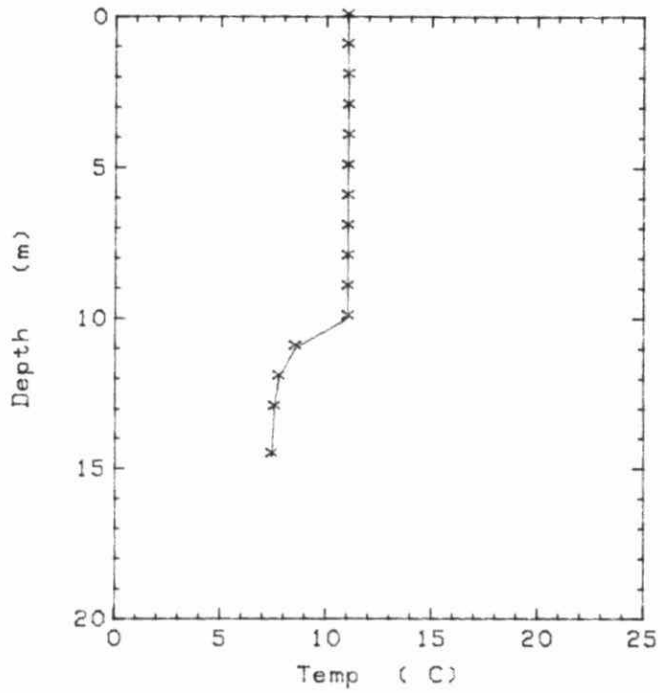


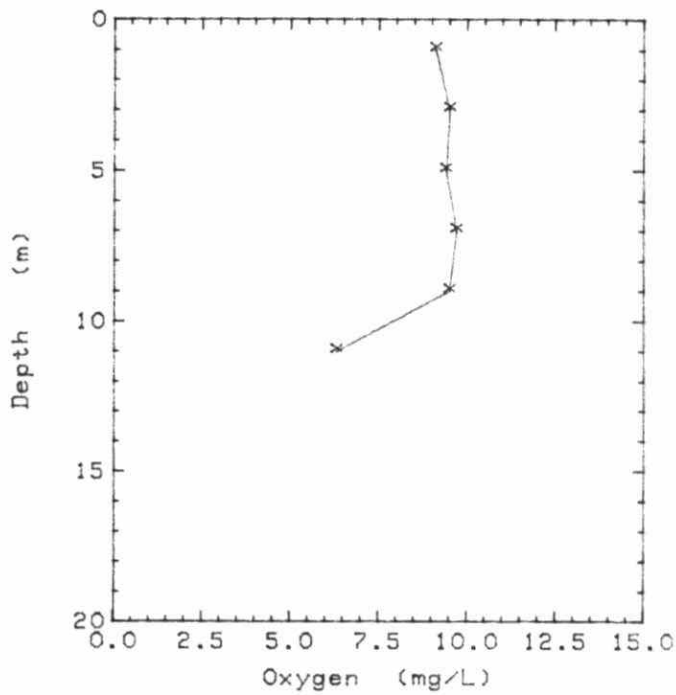



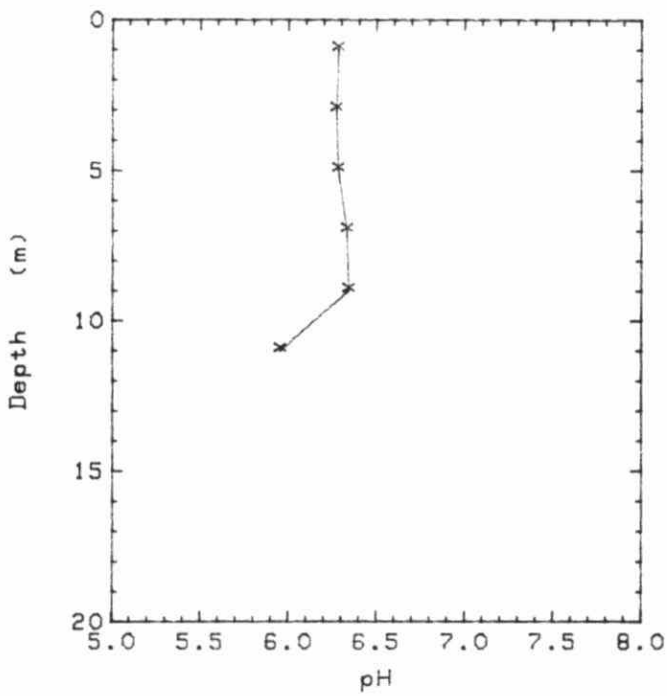



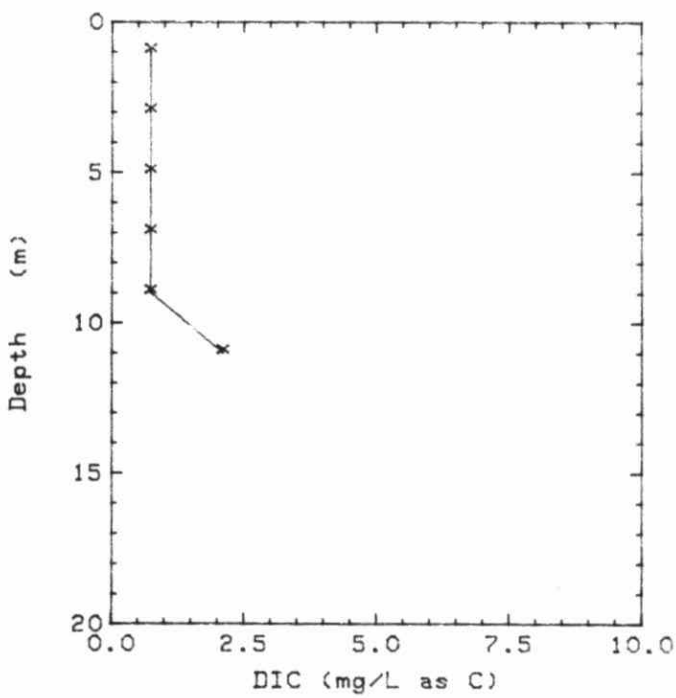



McKAY 81.10.06

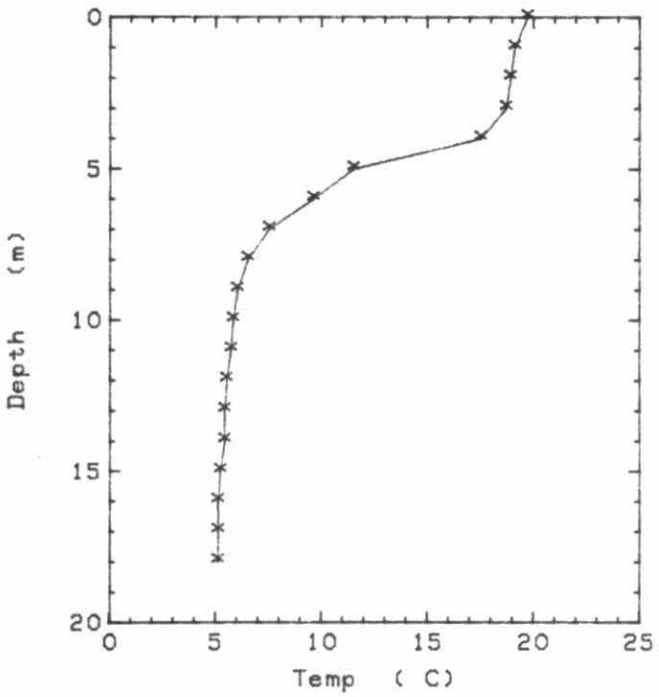


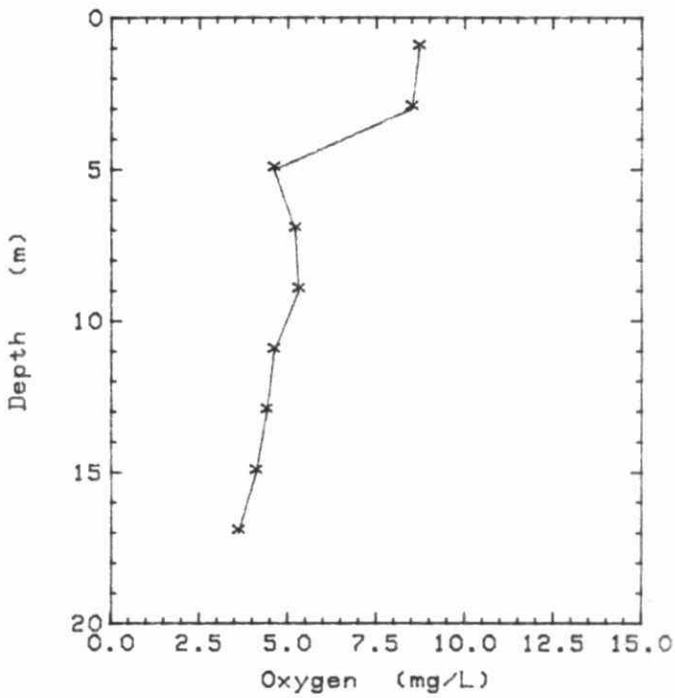



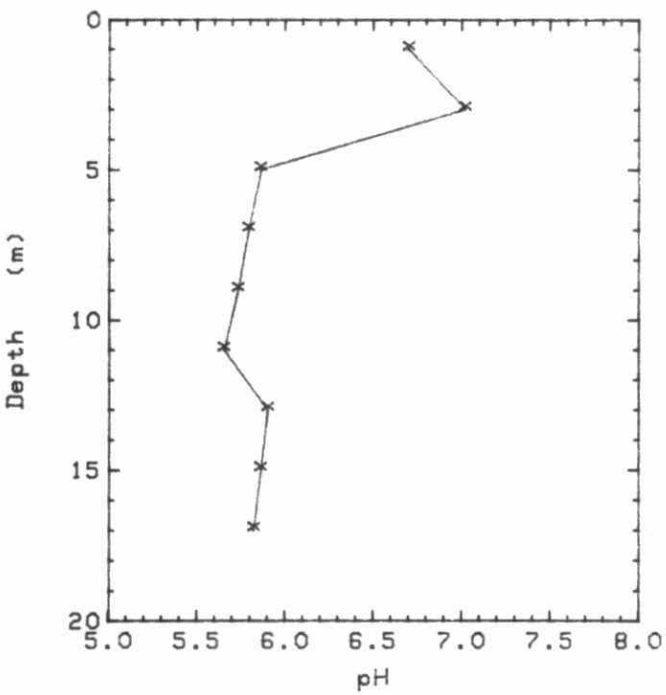



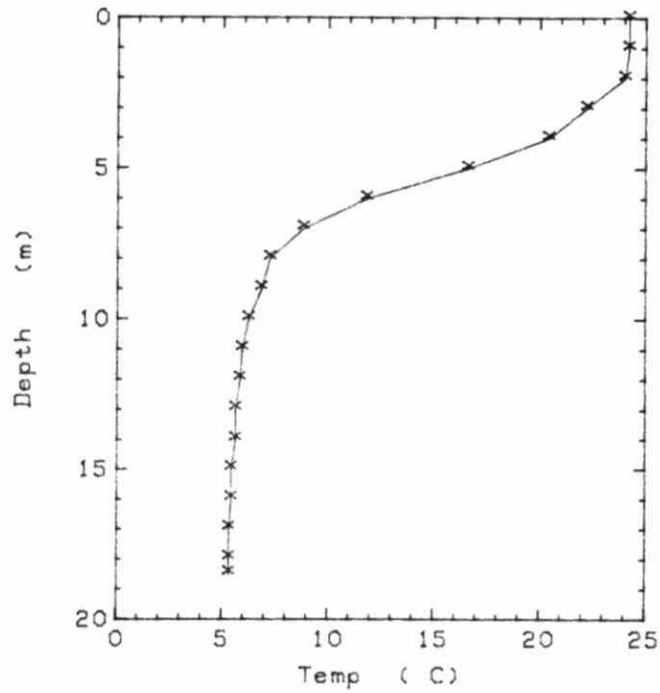
McKAY 82.06.17

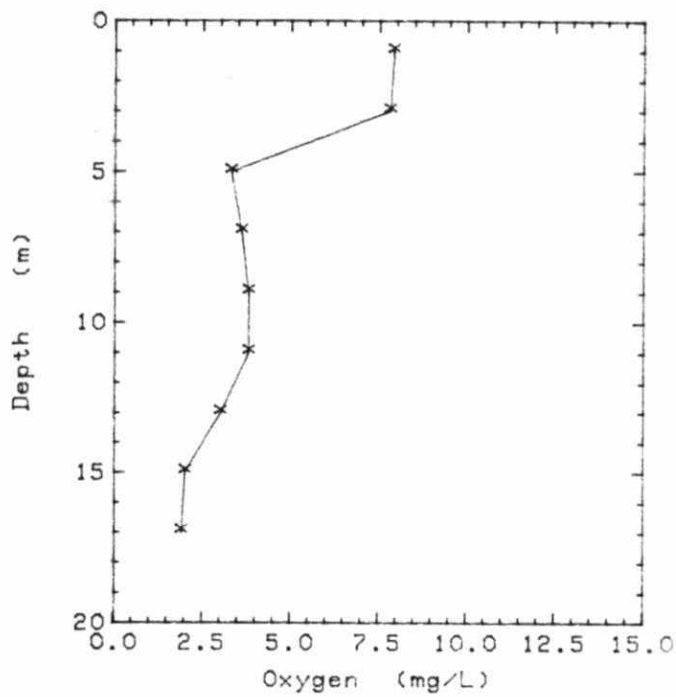


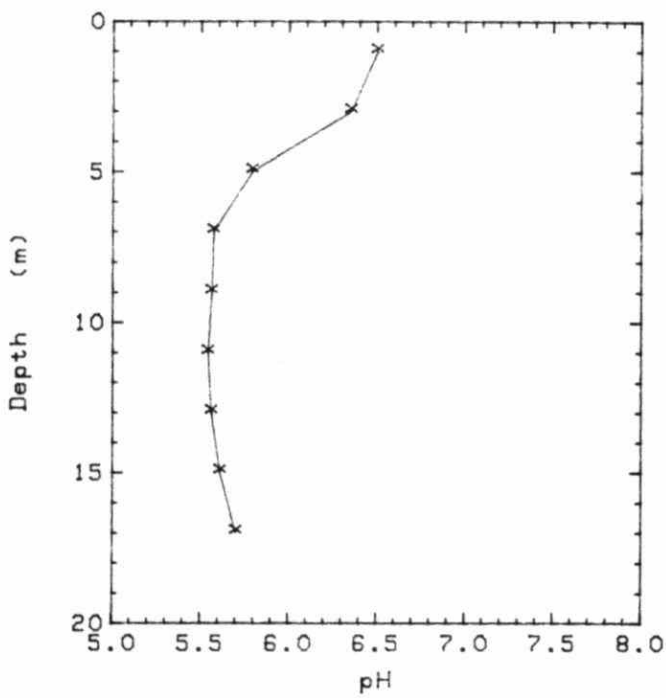



McKAY 82.07.19



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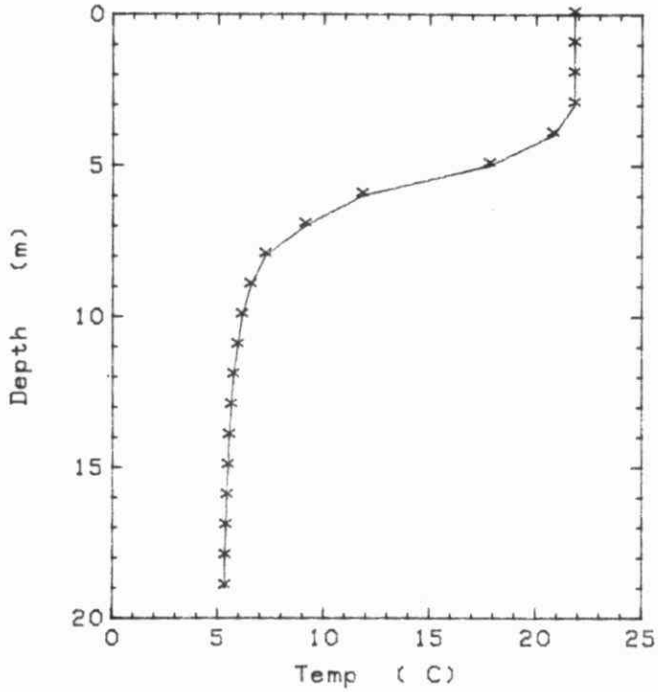


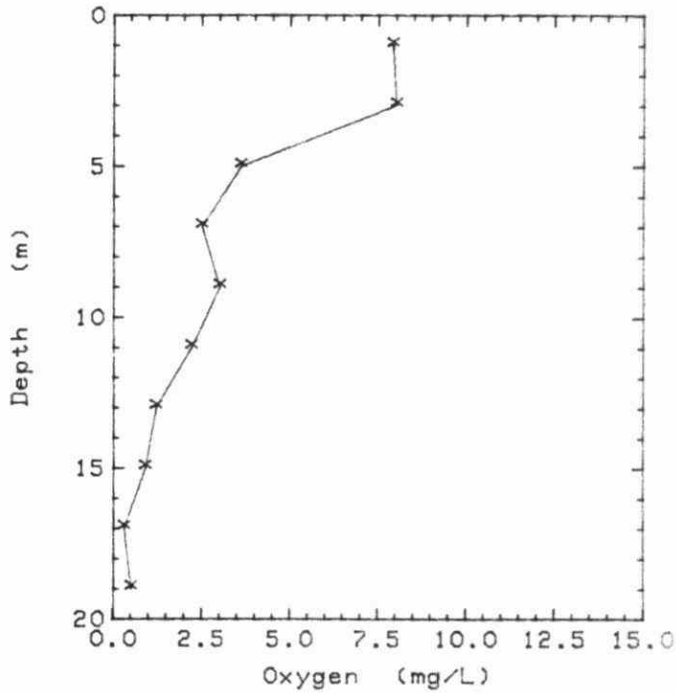


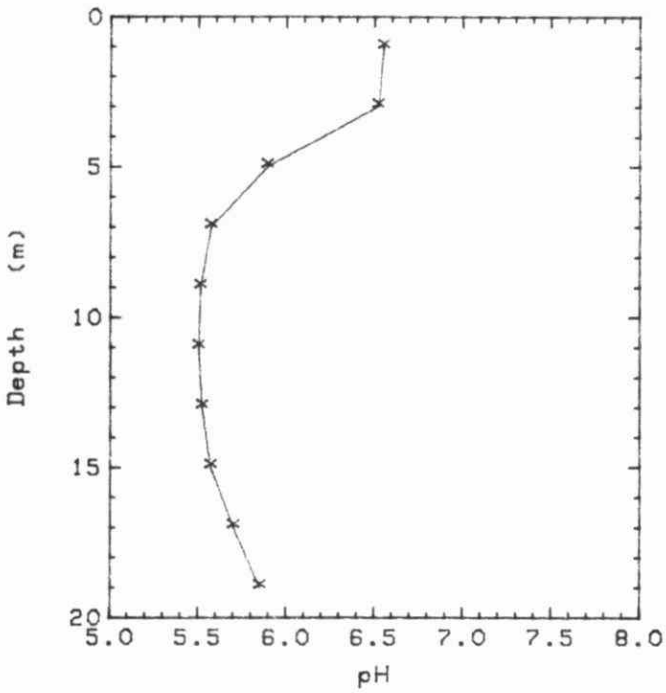

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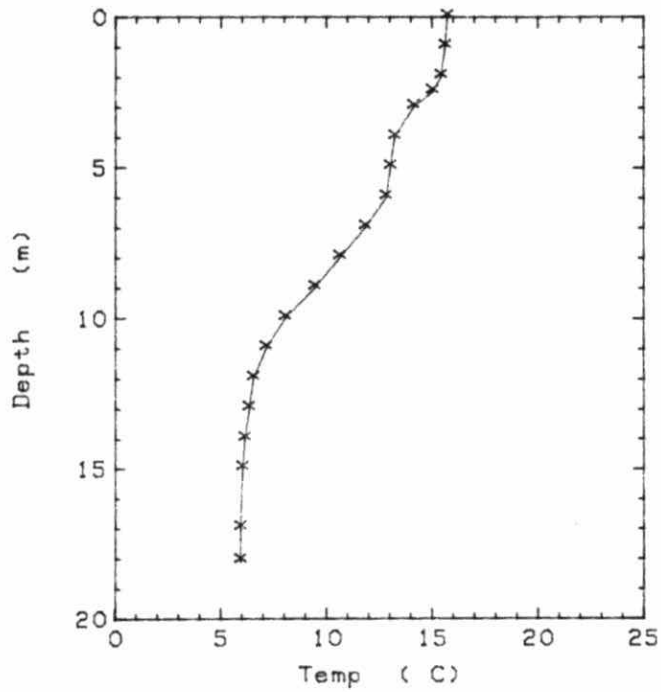


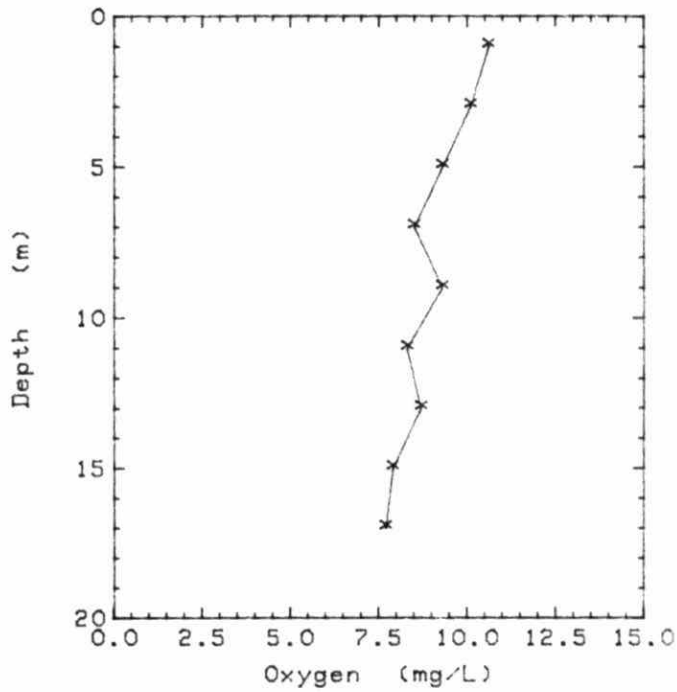


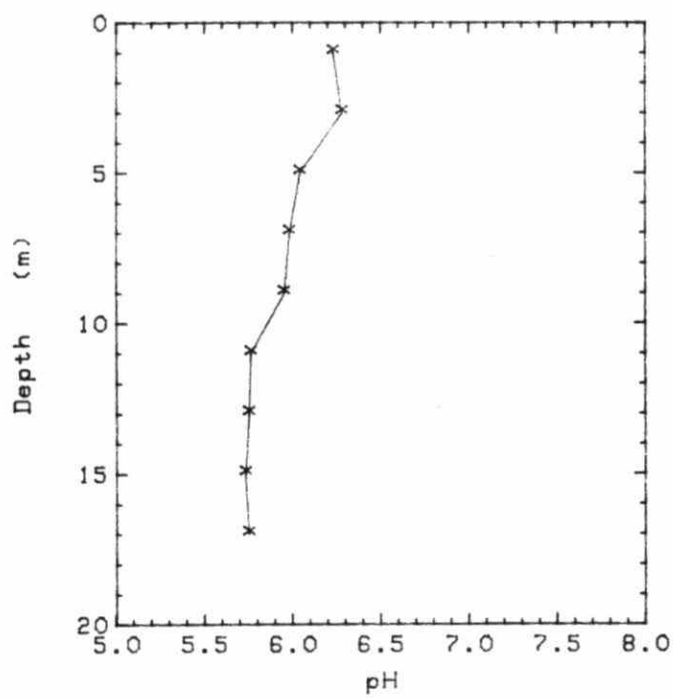


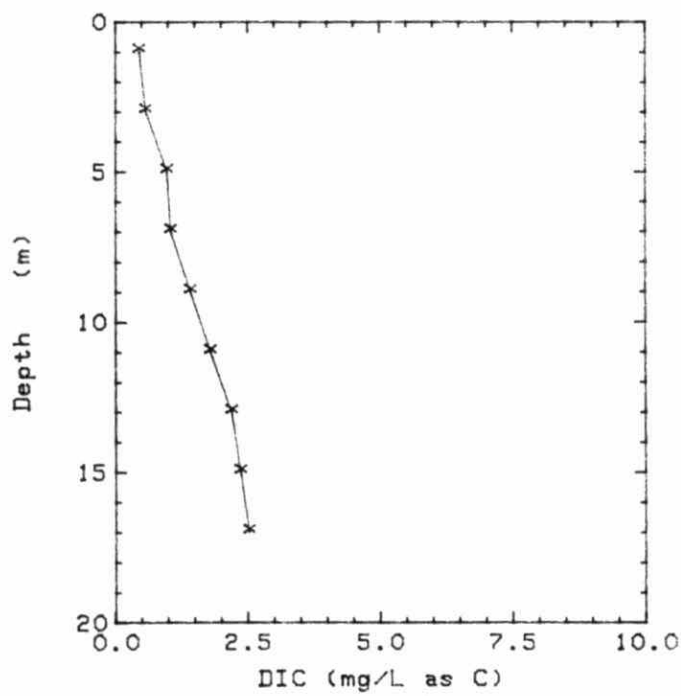

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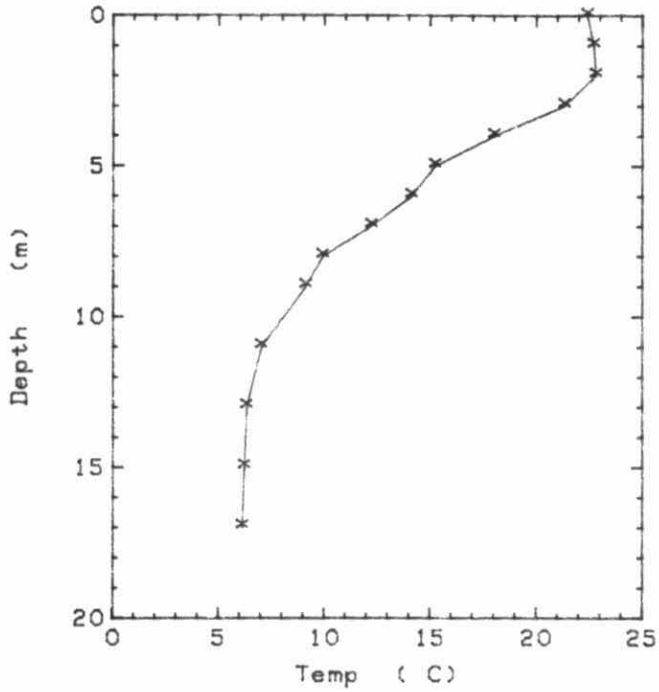


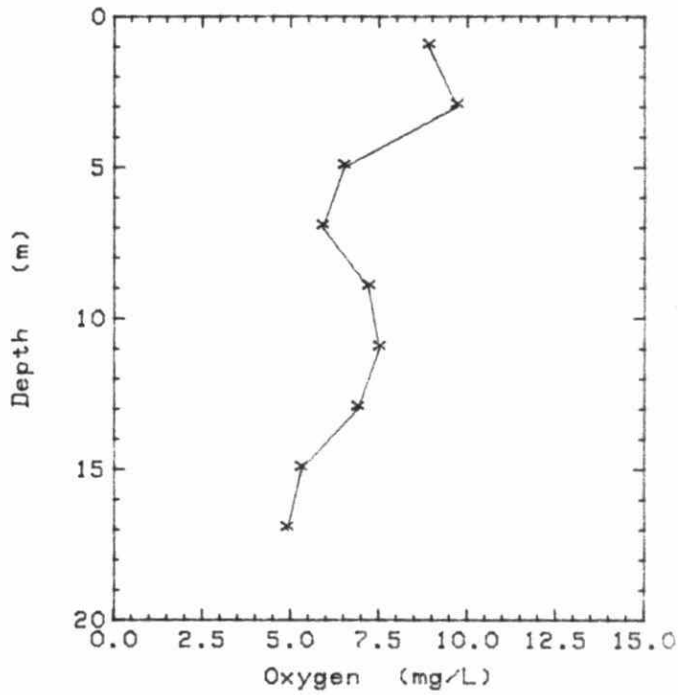


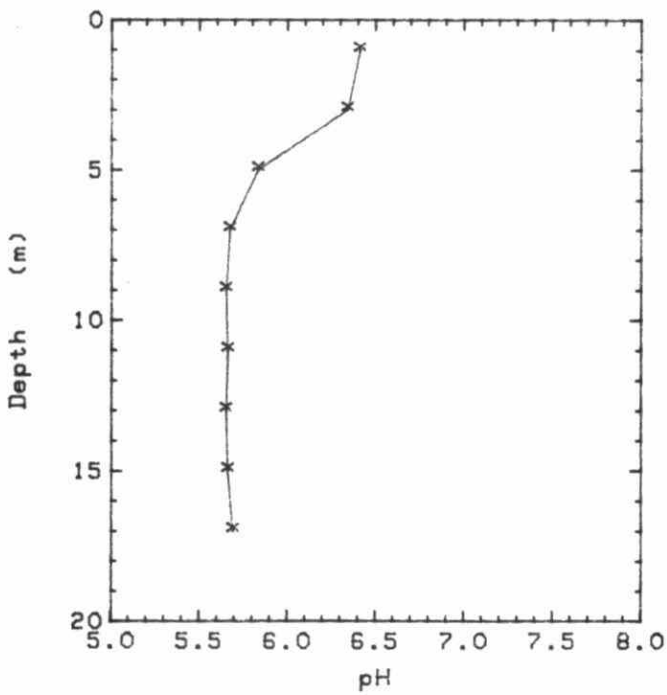


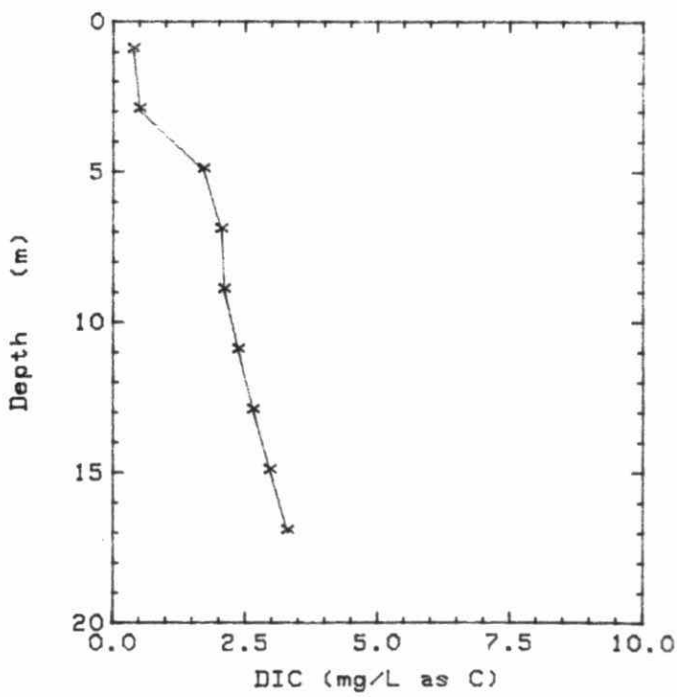

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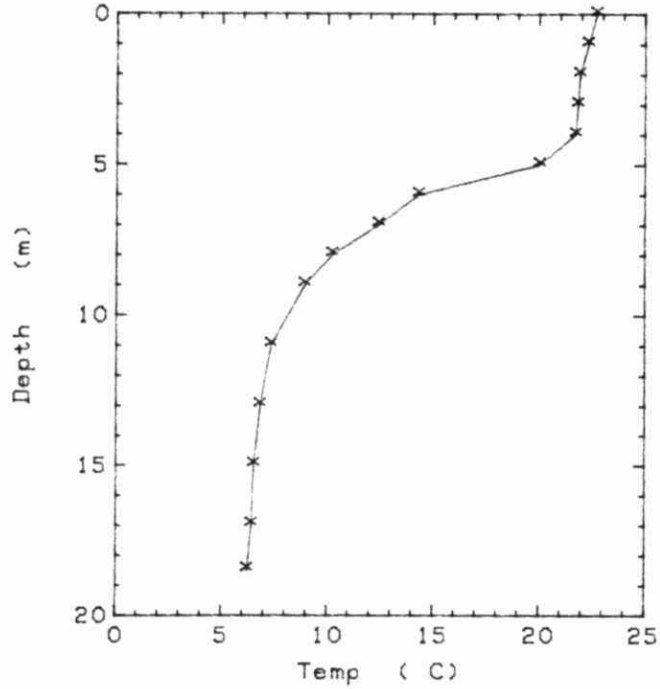
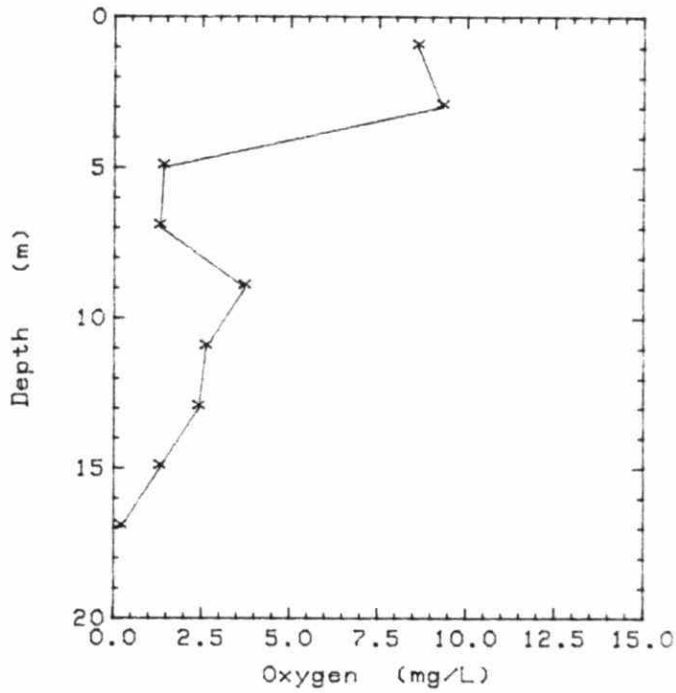
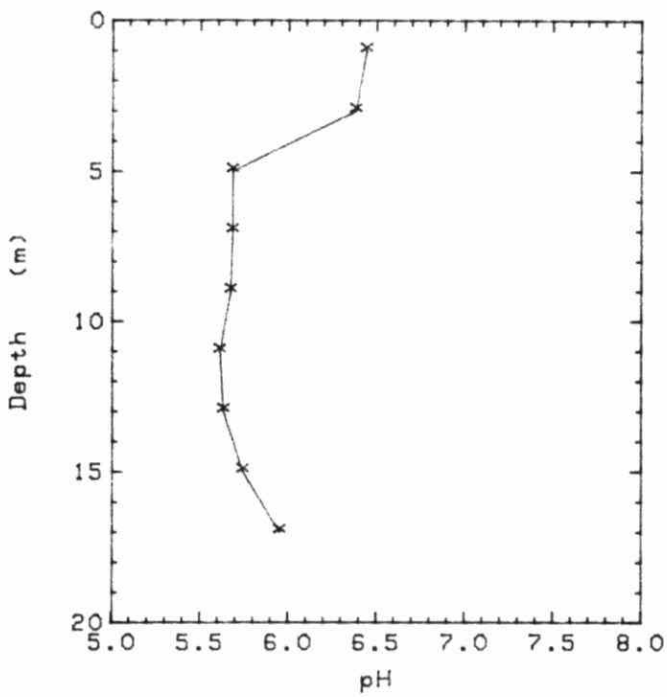
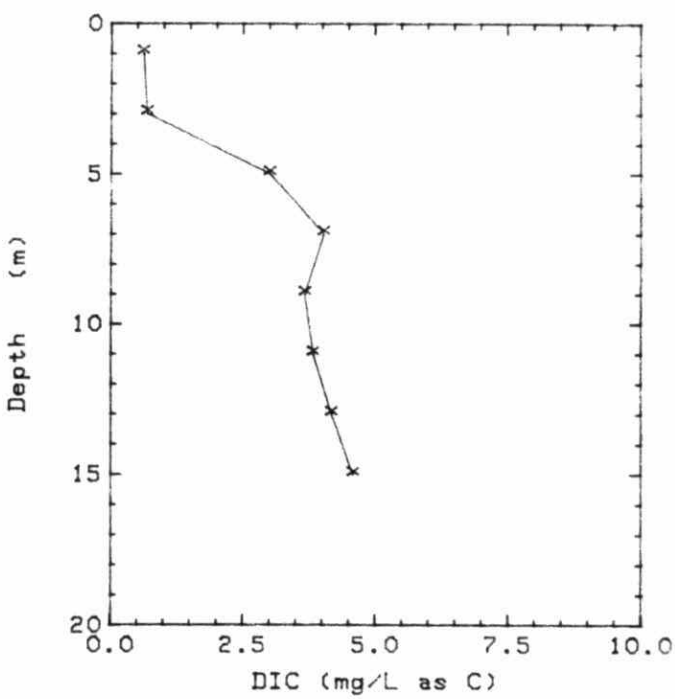
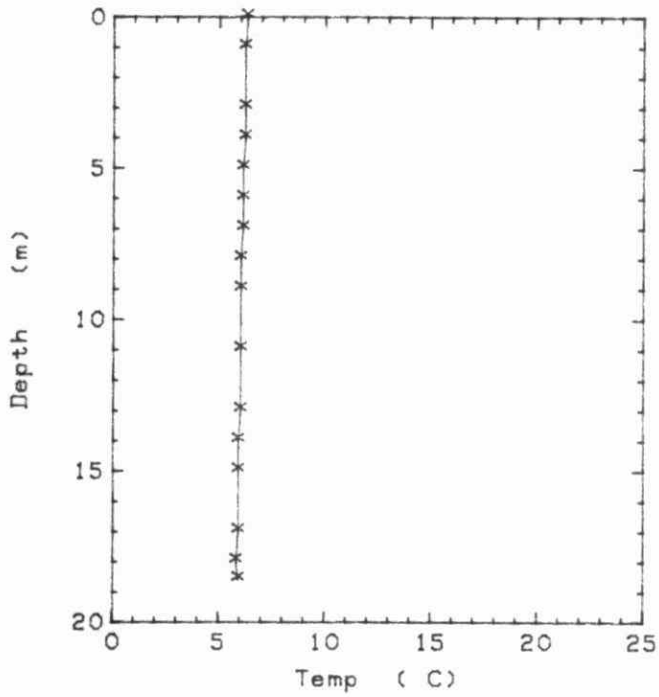


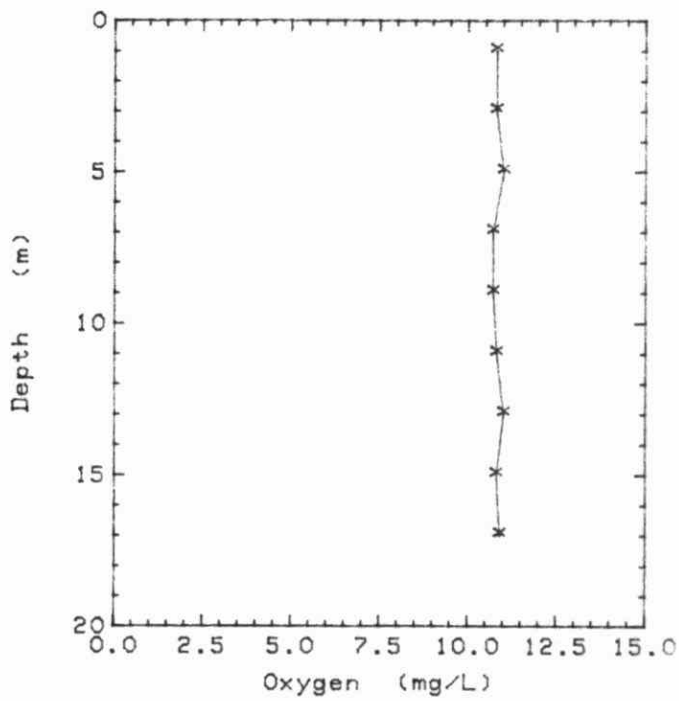



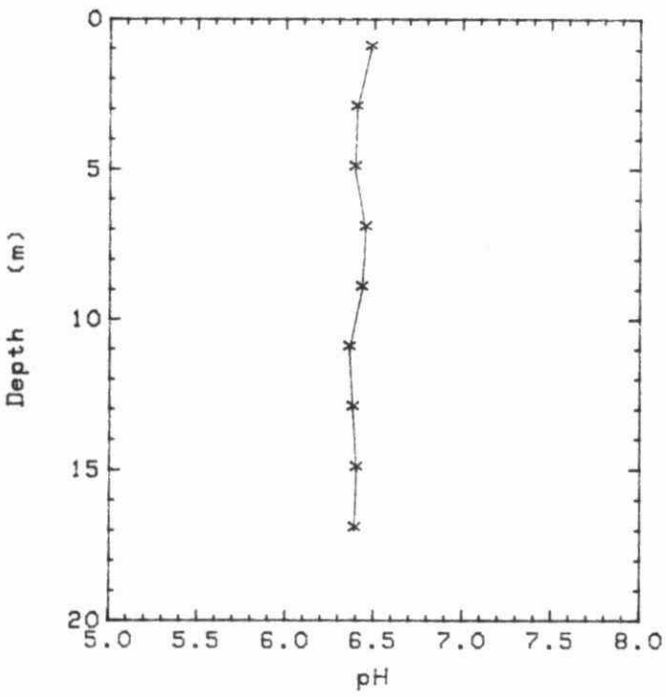



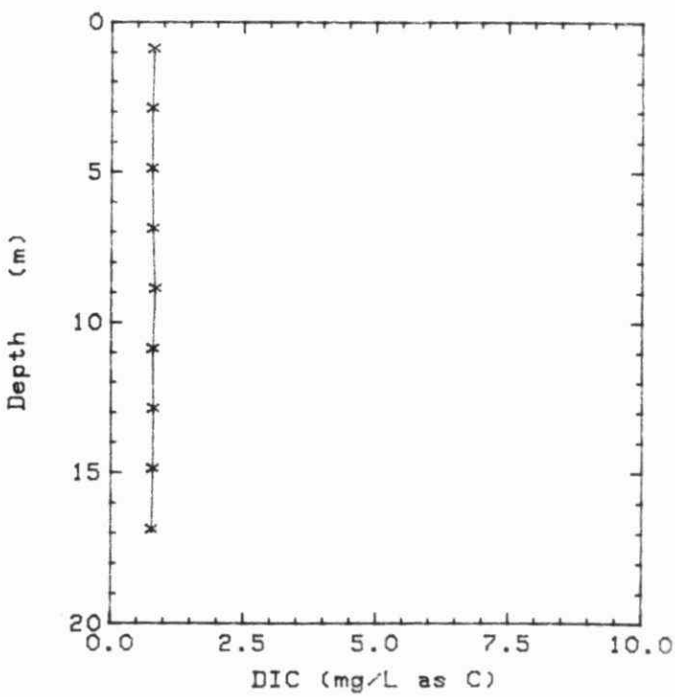



McKAY 83.11.07



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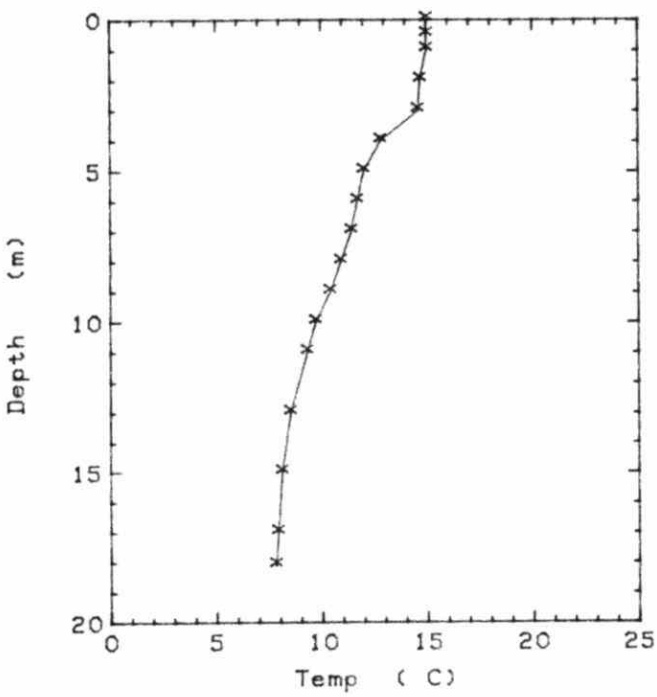
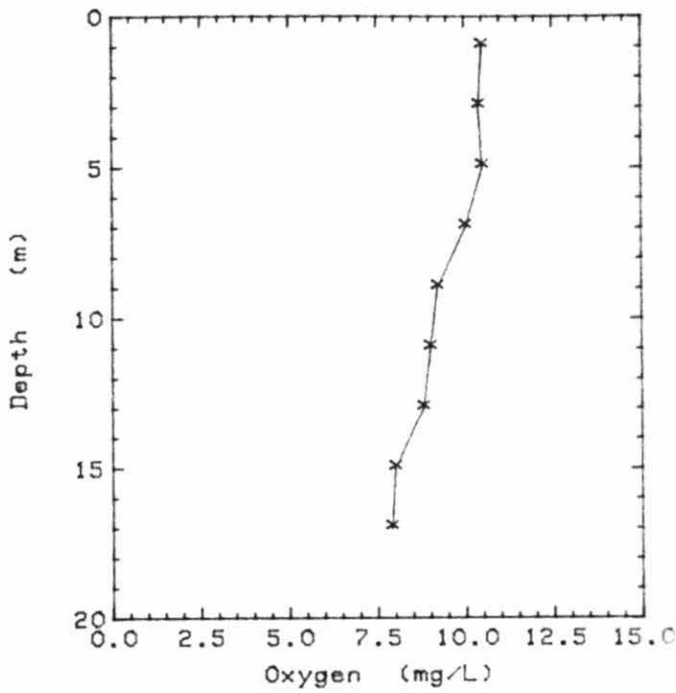
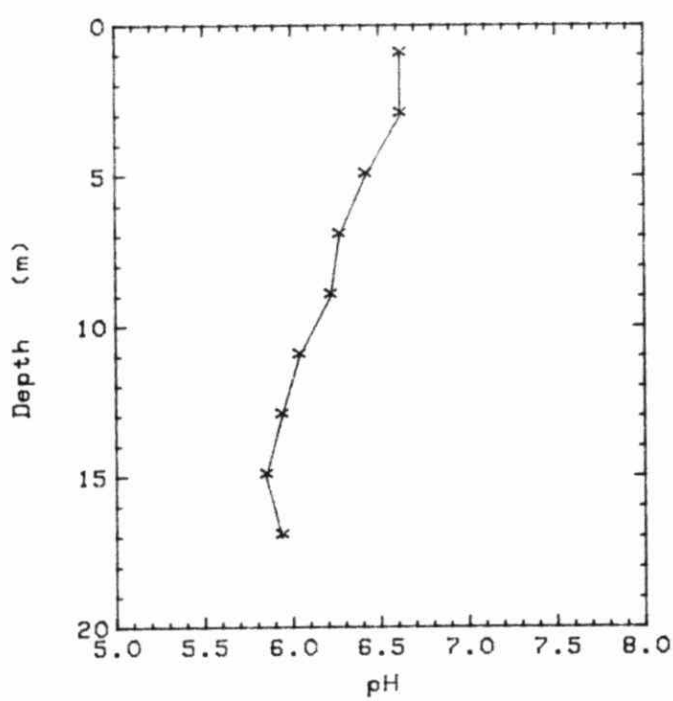
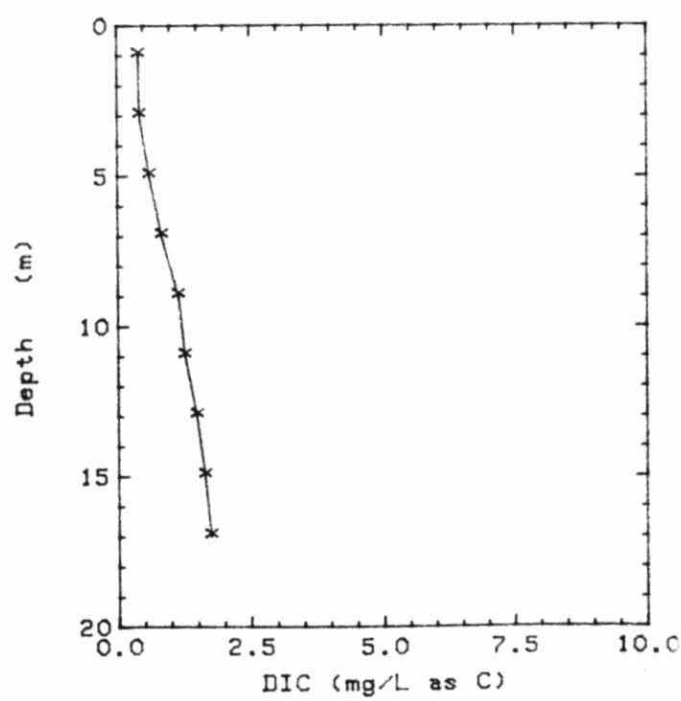
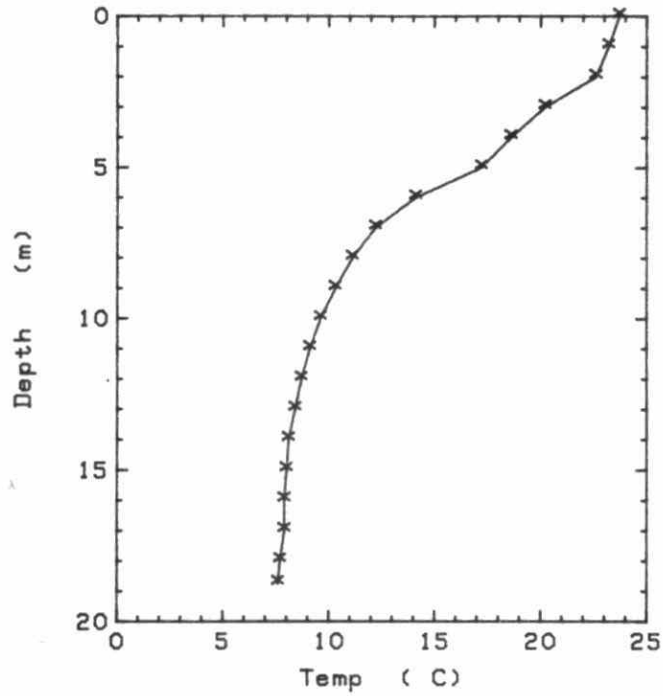


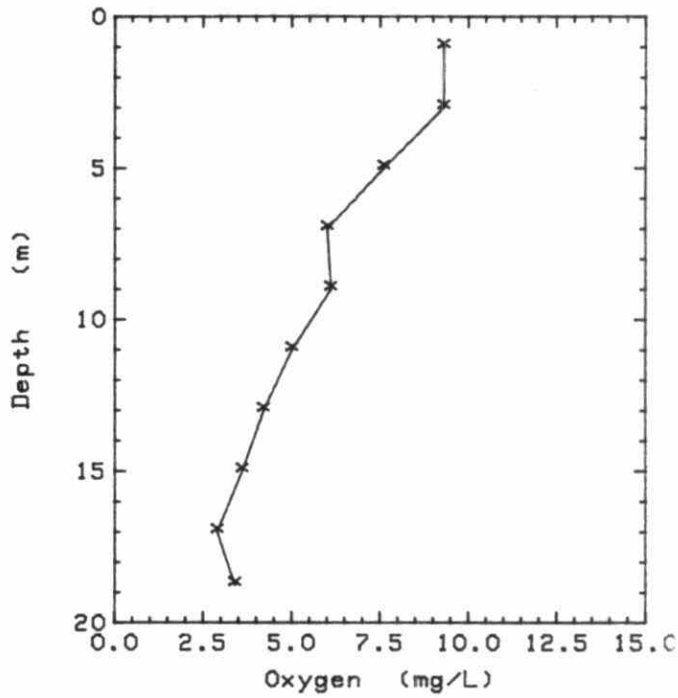



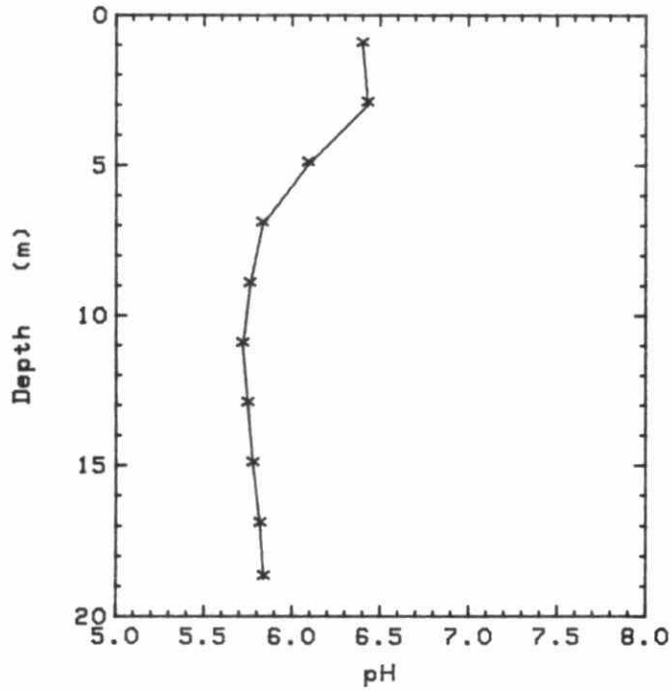



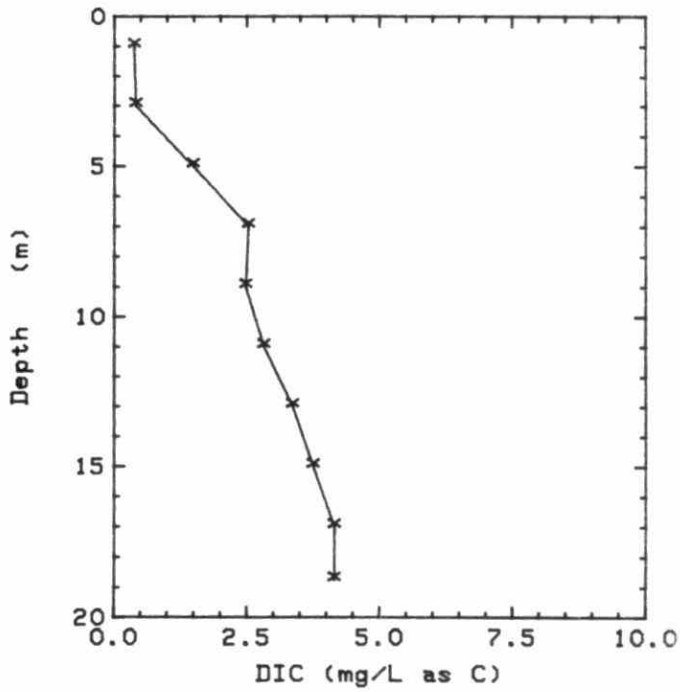



# McKAY 84.07.05

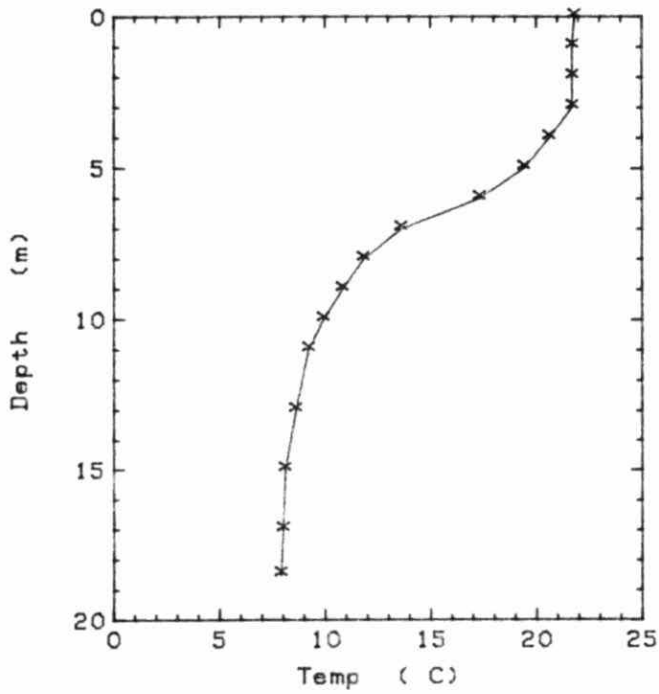


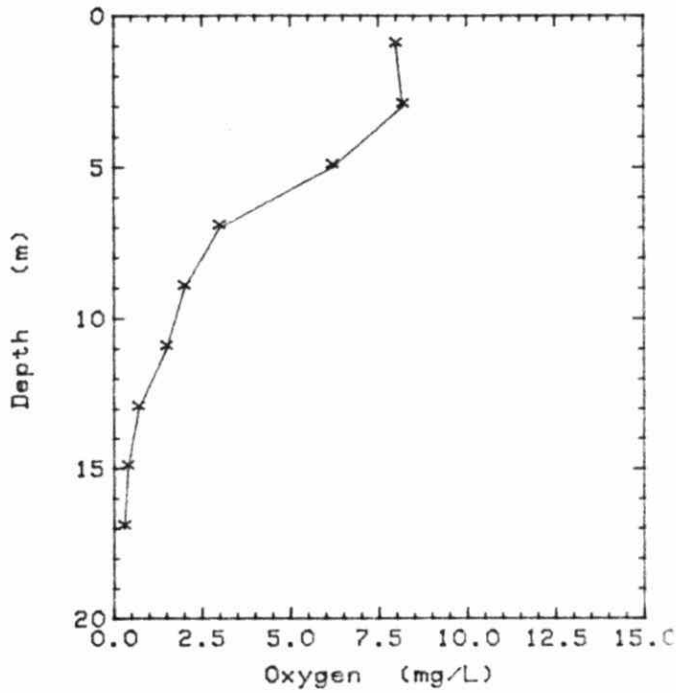



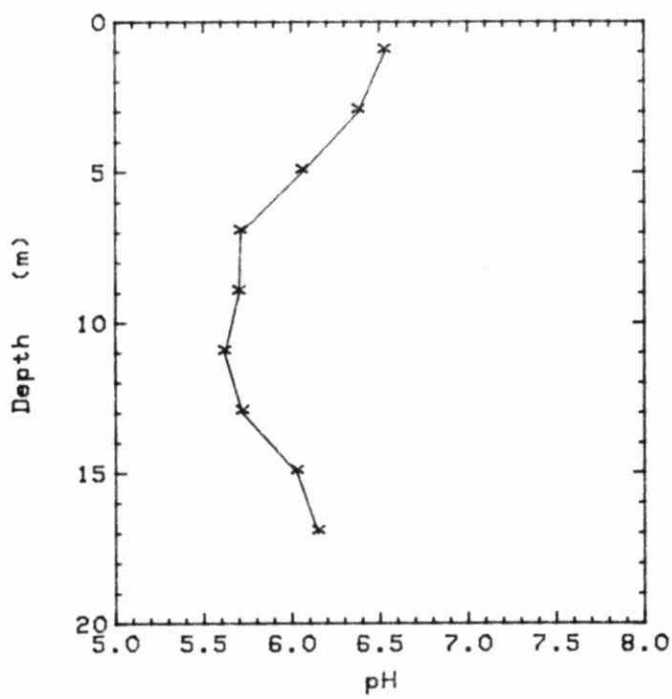



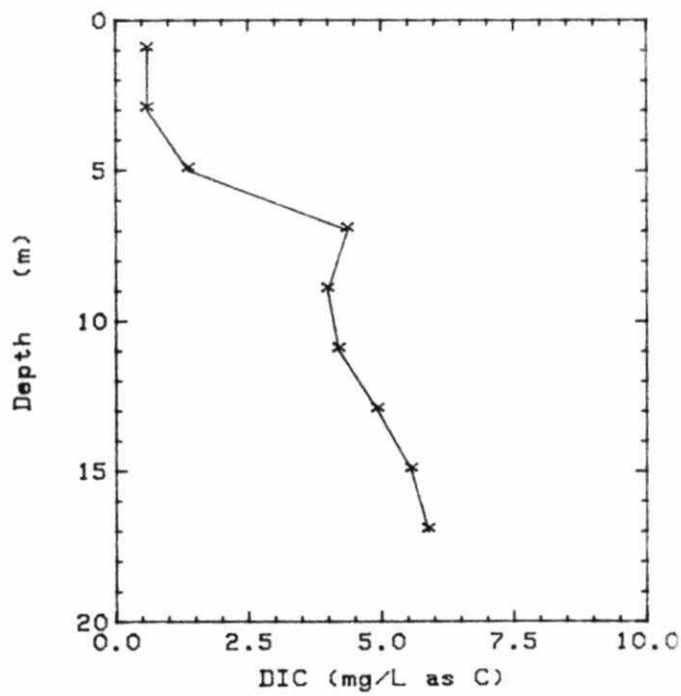



McKAY 84.08.30

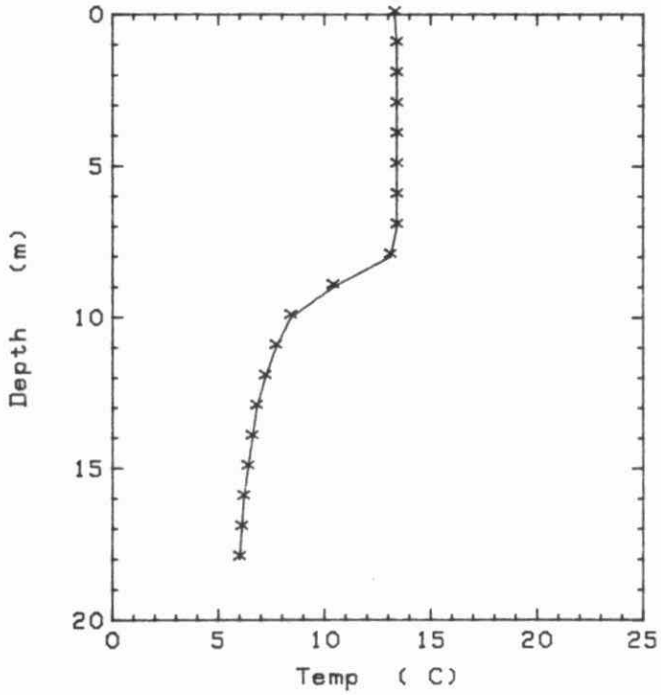


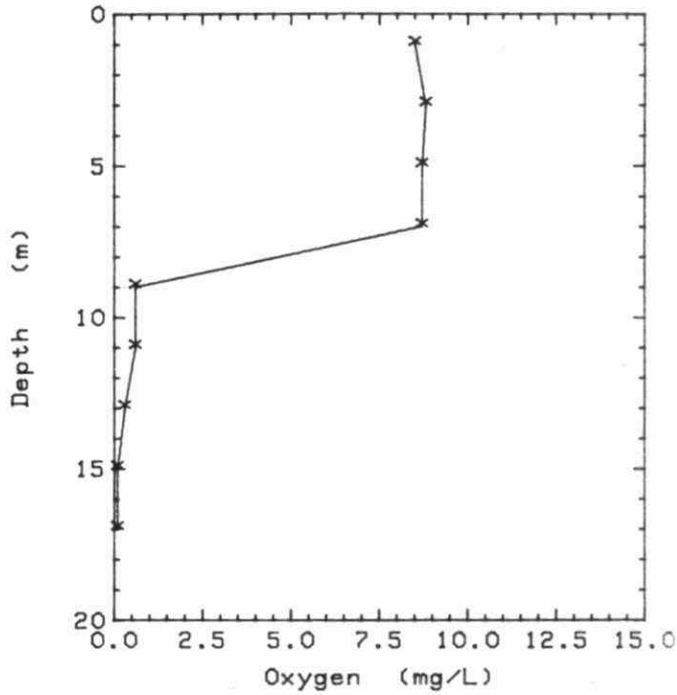



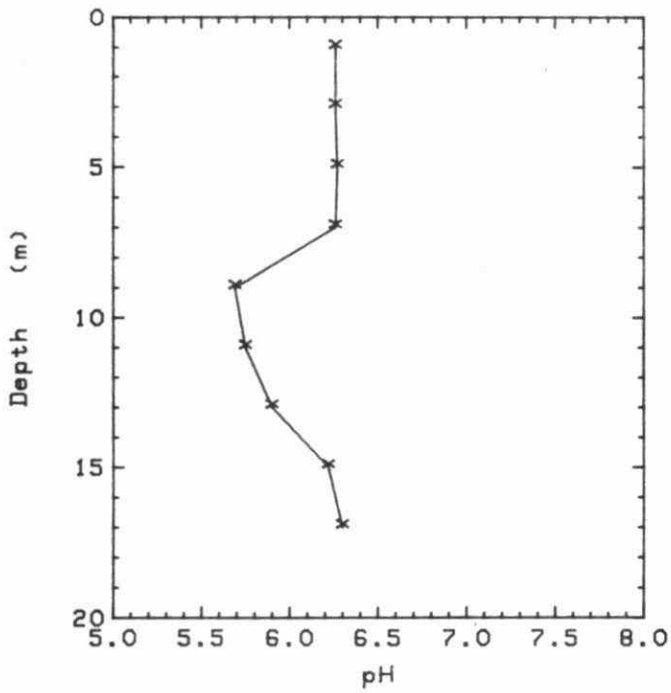



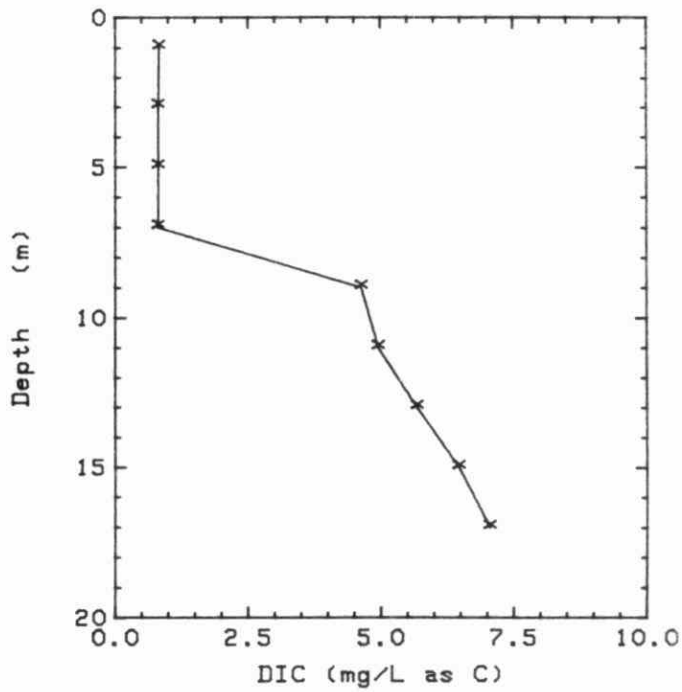



McKAY 84.10.01

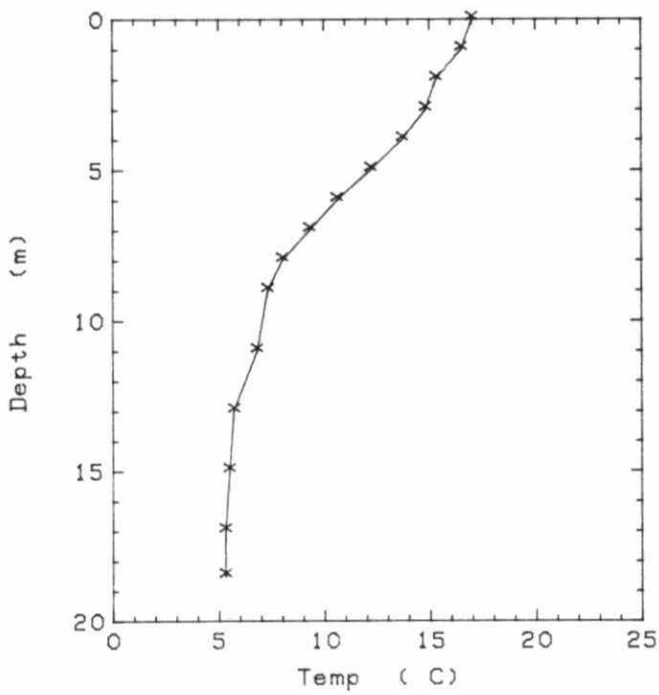


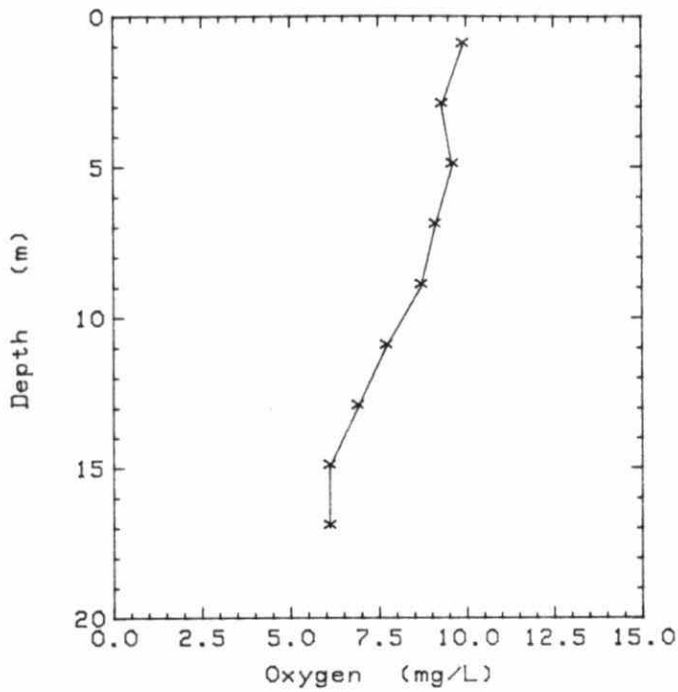



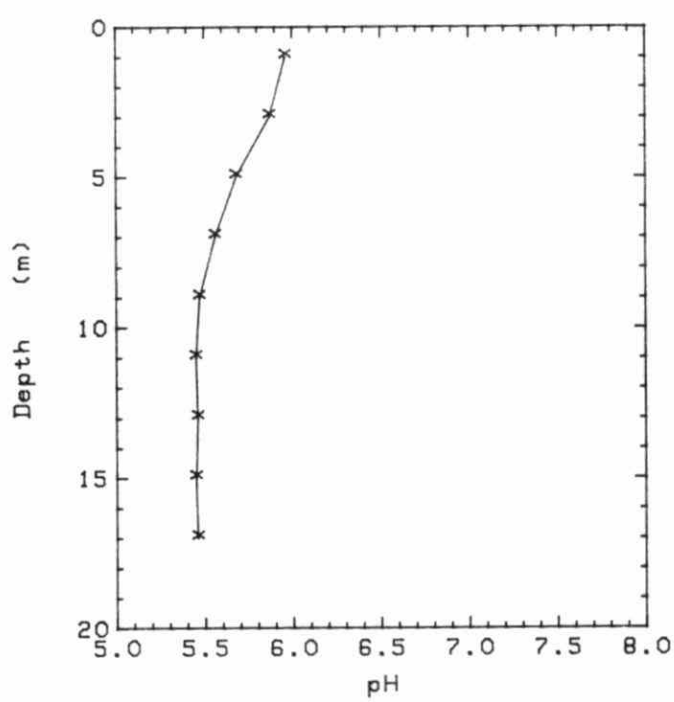



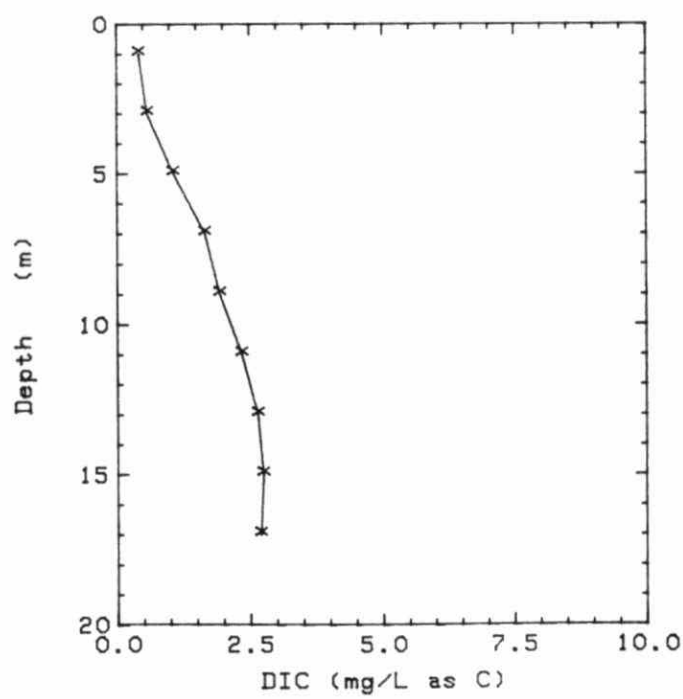



# McKAY 85.05.17

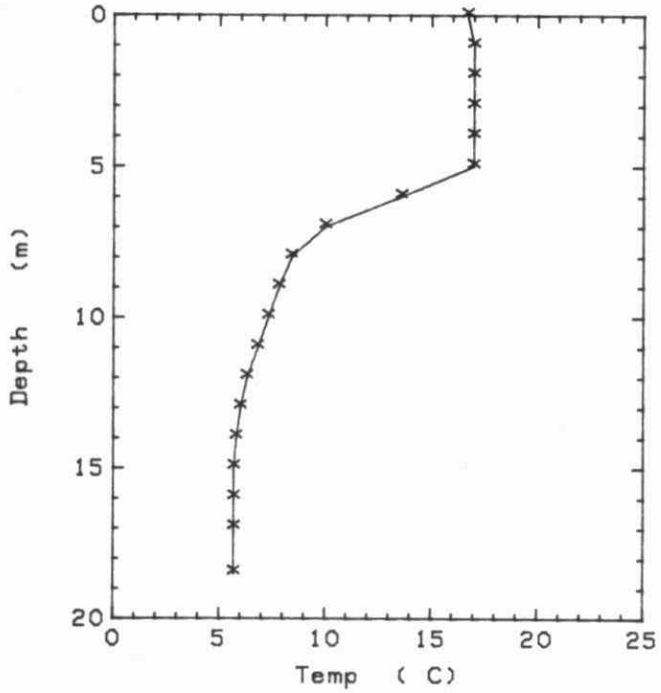


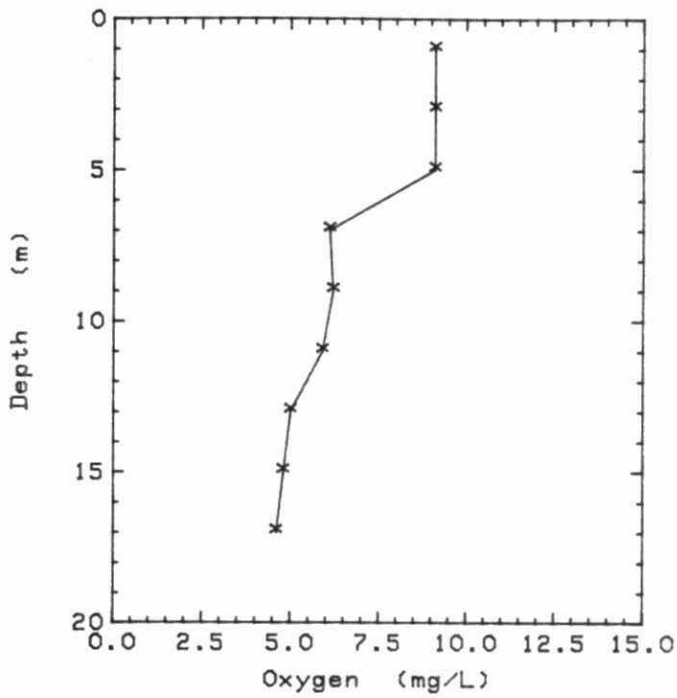



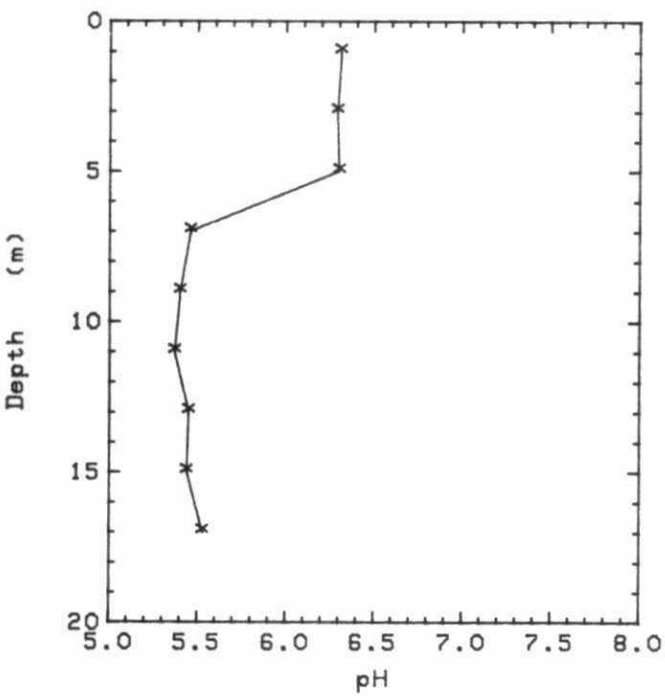



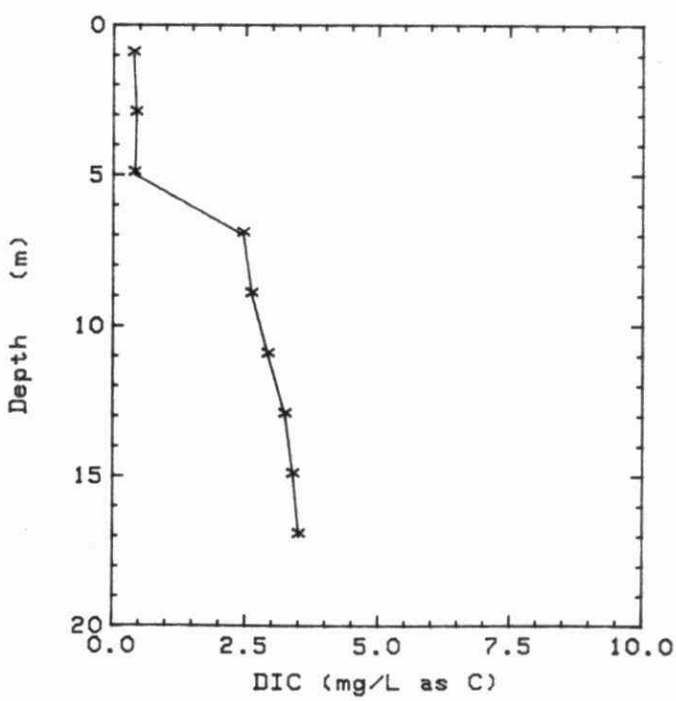



# McKAY 85.06.13

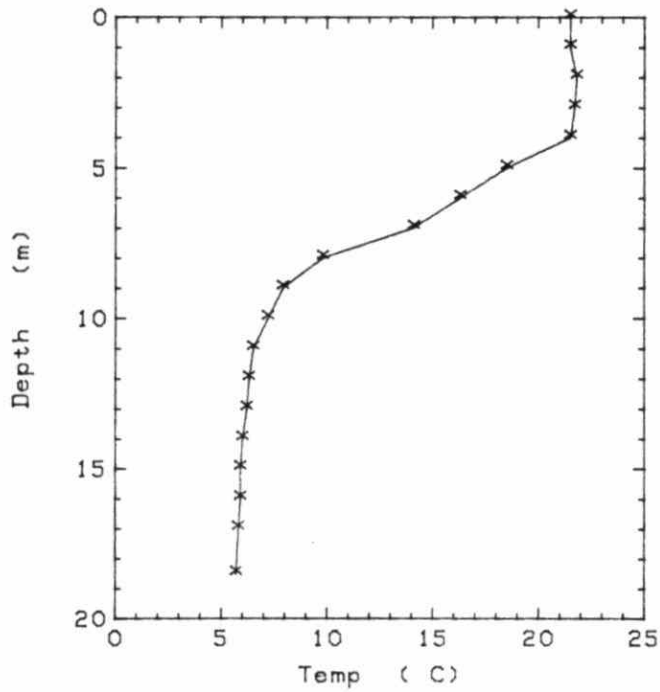


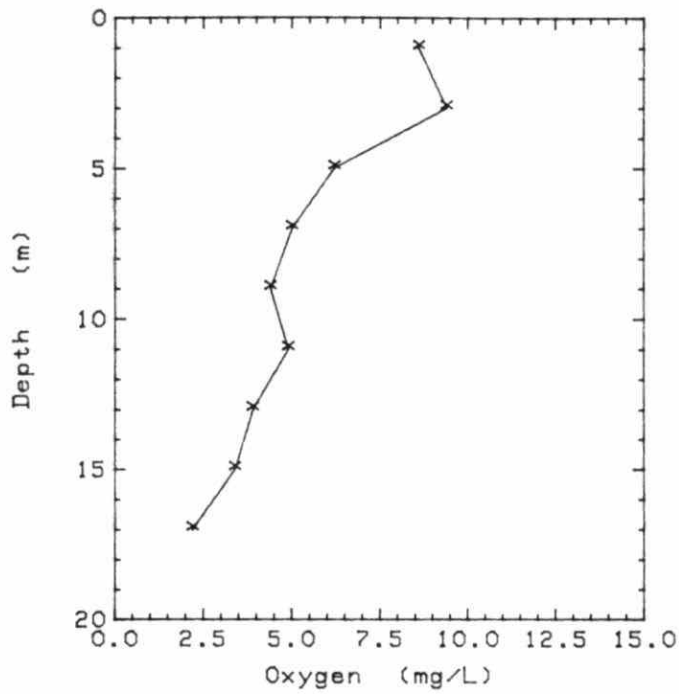



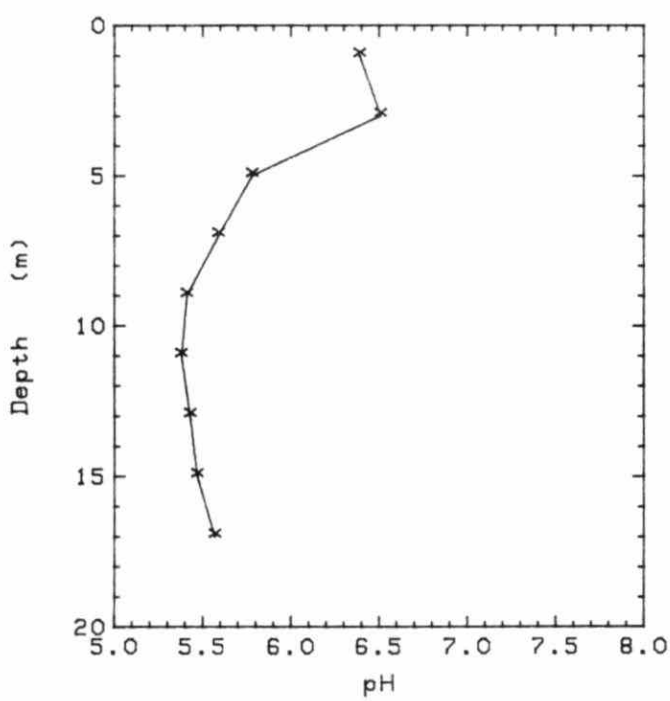



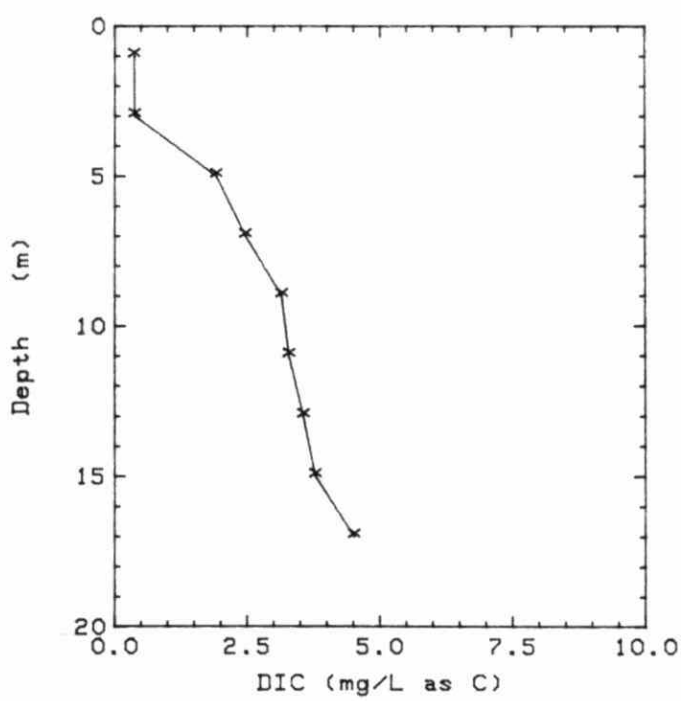



# McKAY 85.07.11

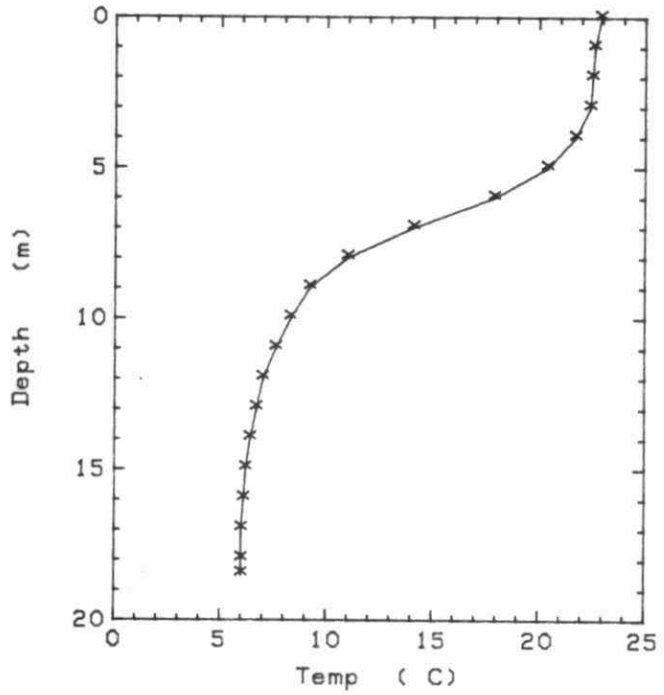


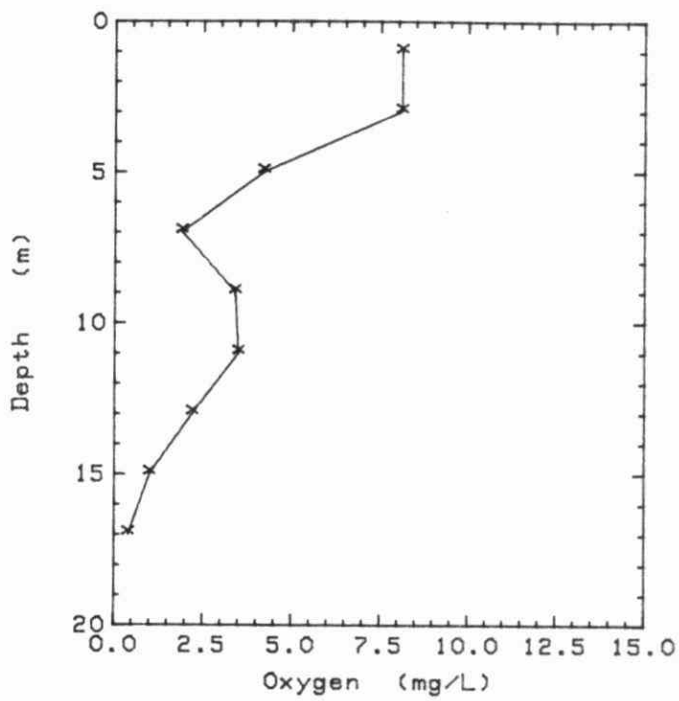



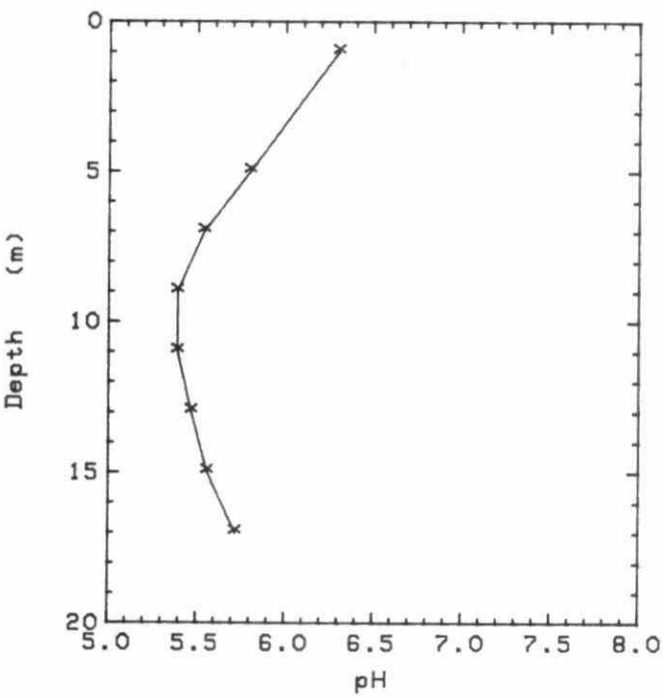



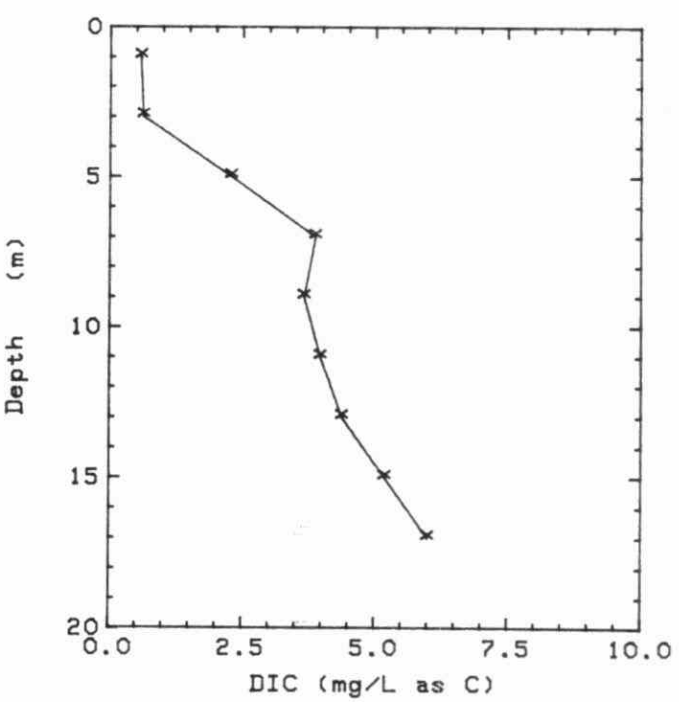



# McKAY 85.08.08

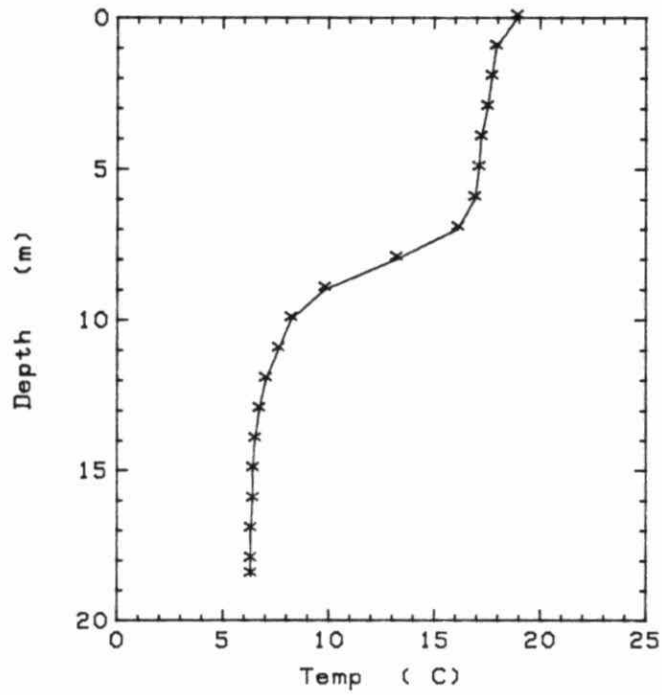


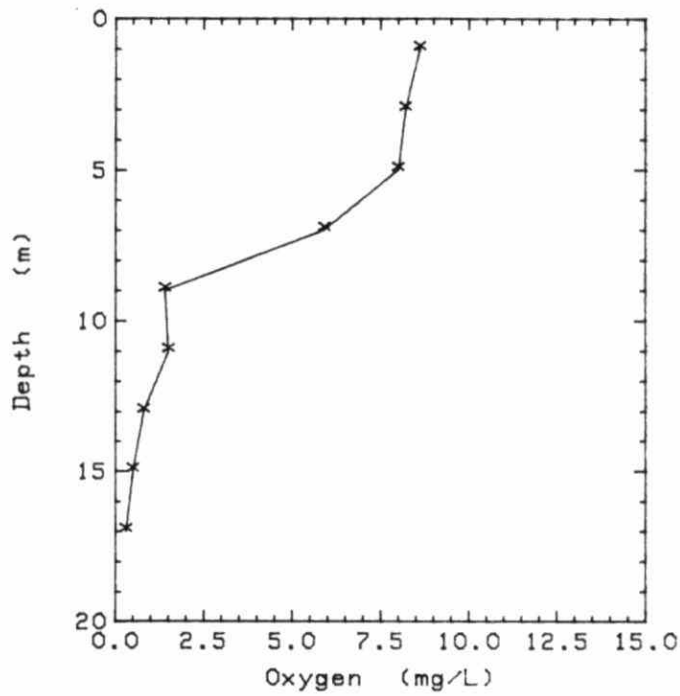



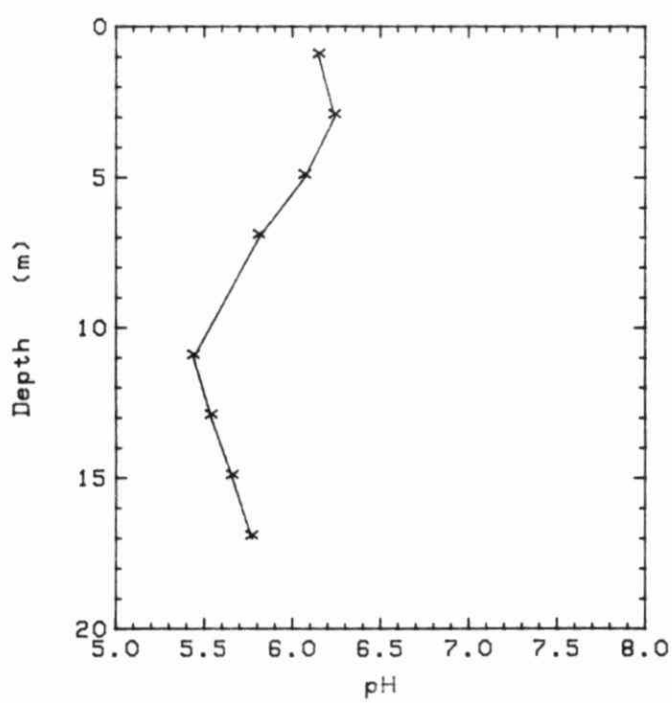



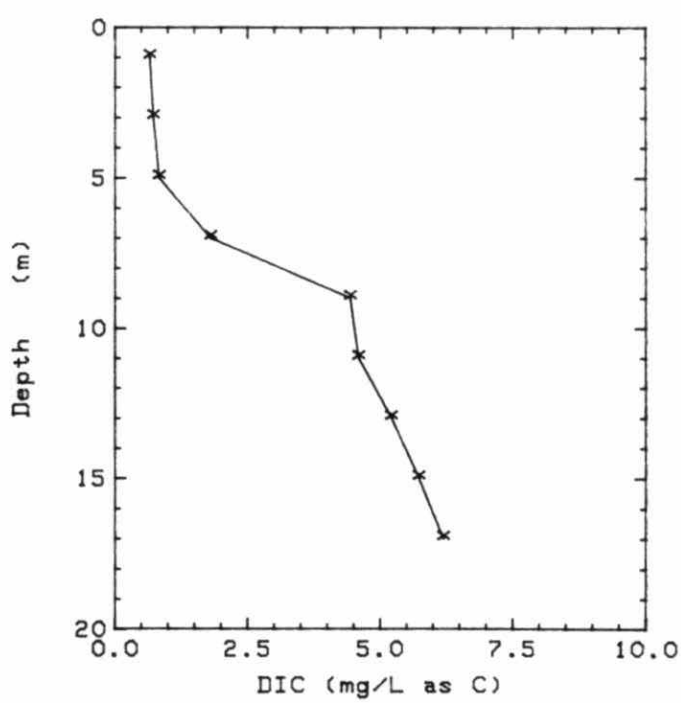



# McKAY 85.09.19

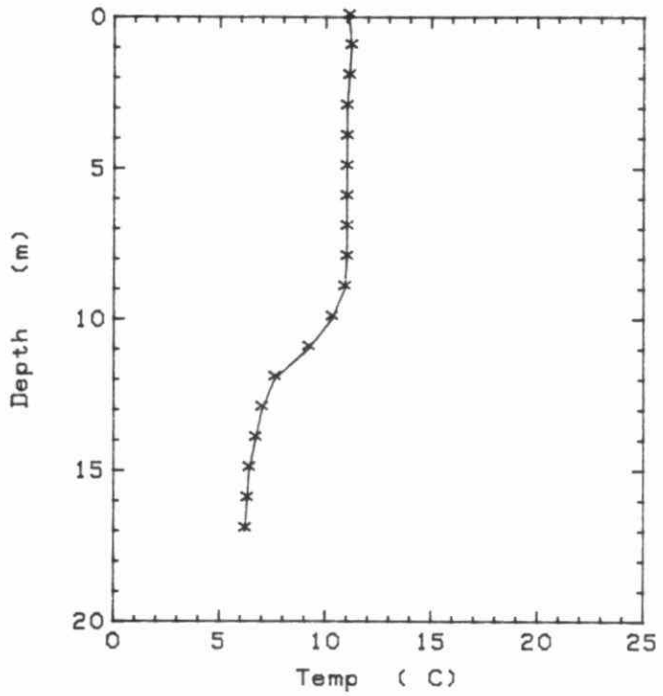


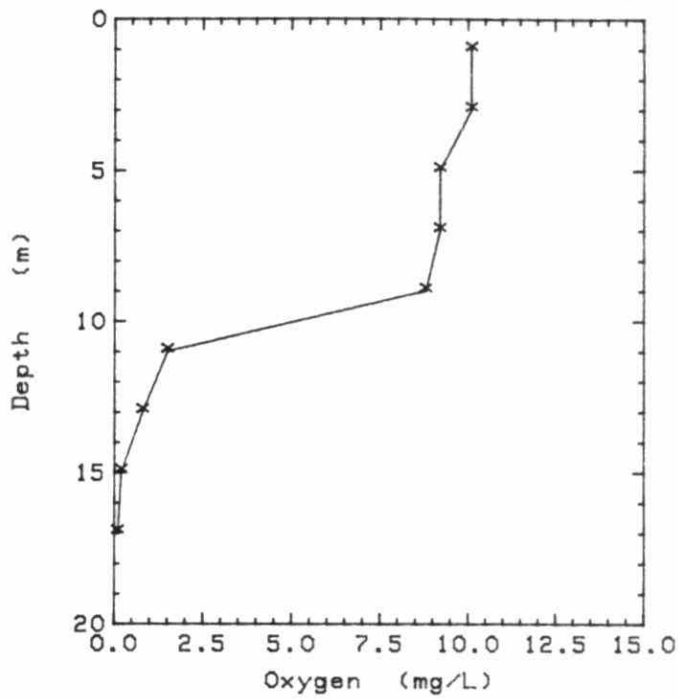



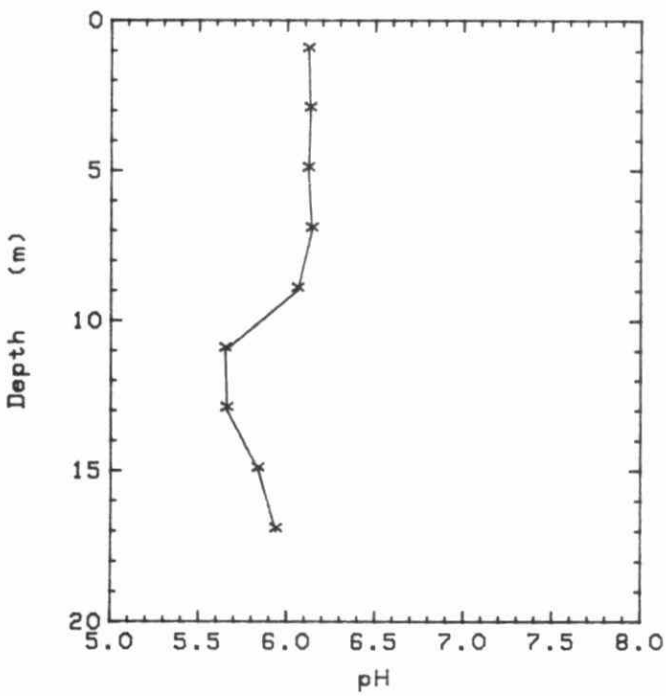



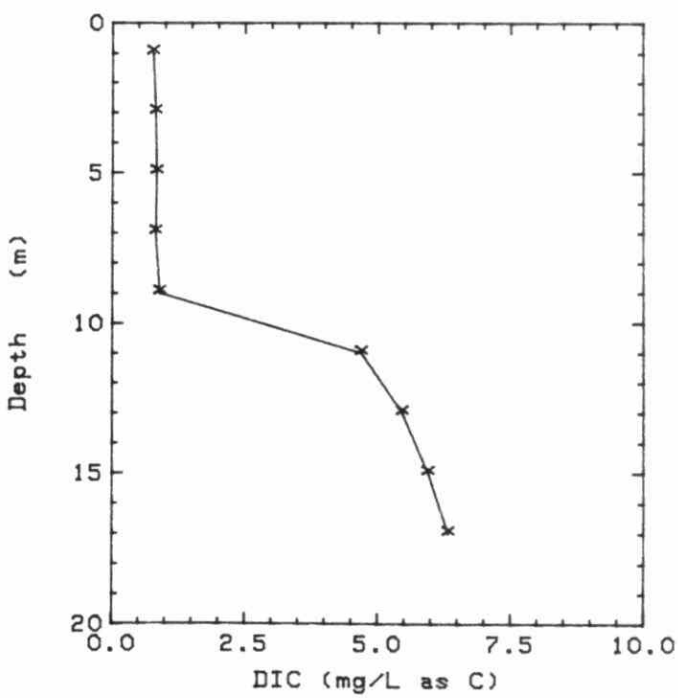



# McKAY 85.10.17

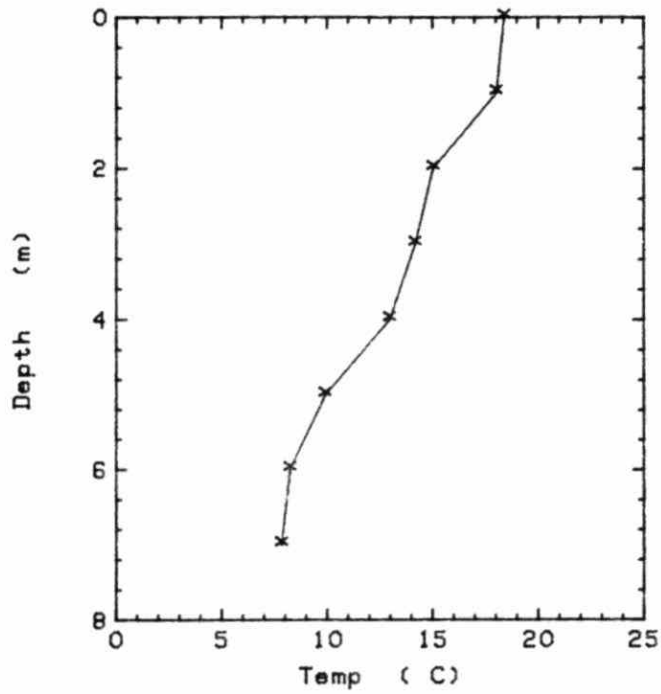


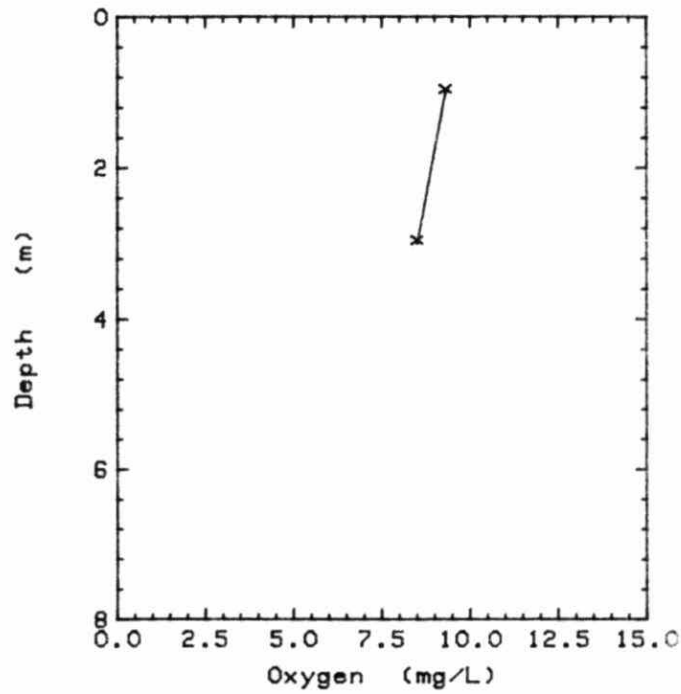



# MOOT 80.05.22


Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)


Depth (m)
0
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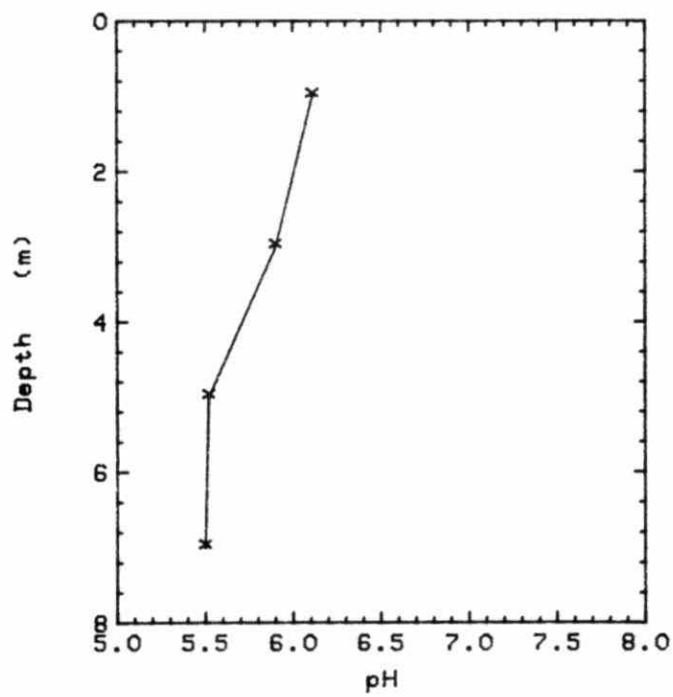
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)


Depth (m)
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4
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8
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6.0
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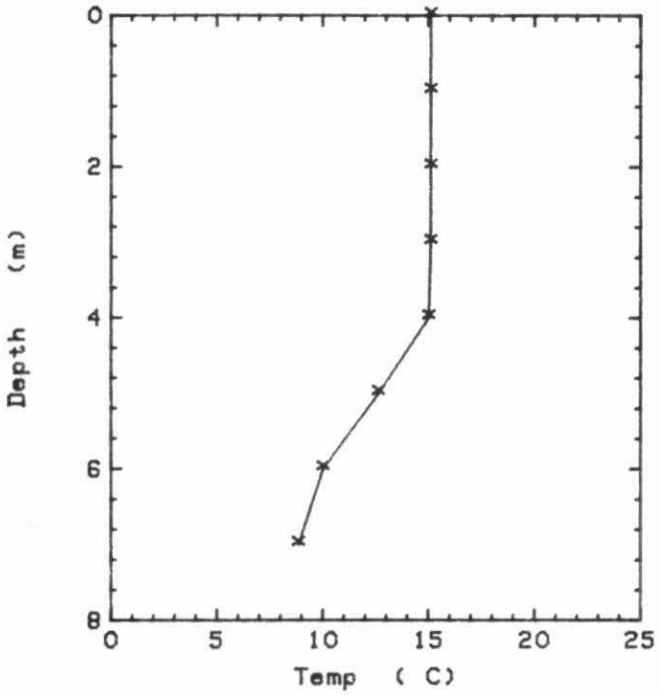
7.5
8.0
pH

# MOOT 80.06.19


Depth (m)
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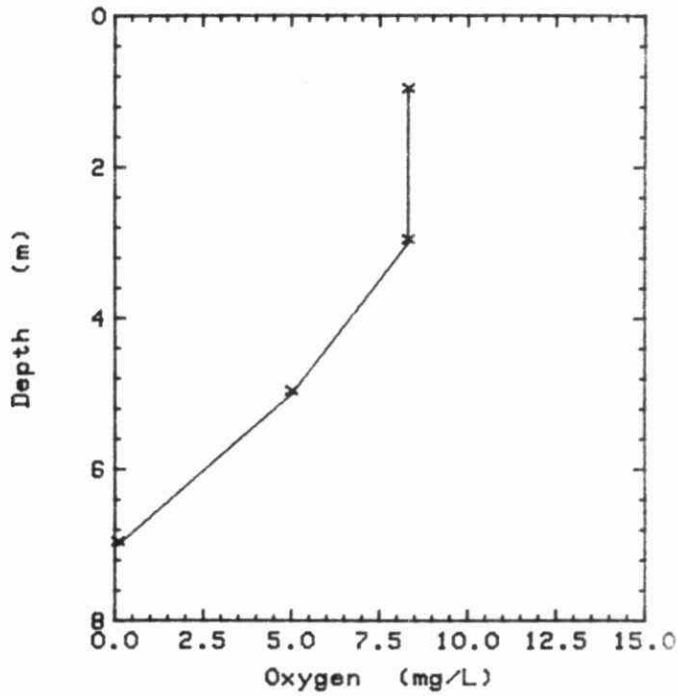
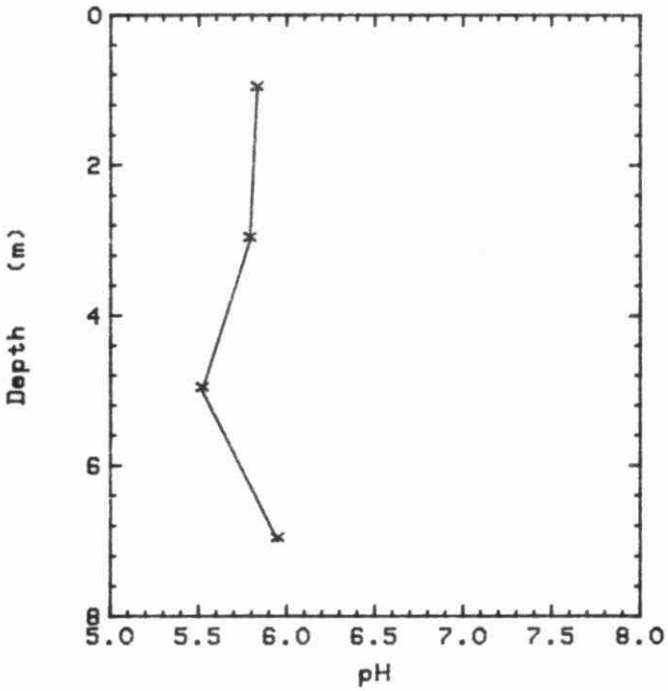
2
4
6
8
0
5
10
15
20
25
Temp ( C)


Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)


Depth (m)
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6
8
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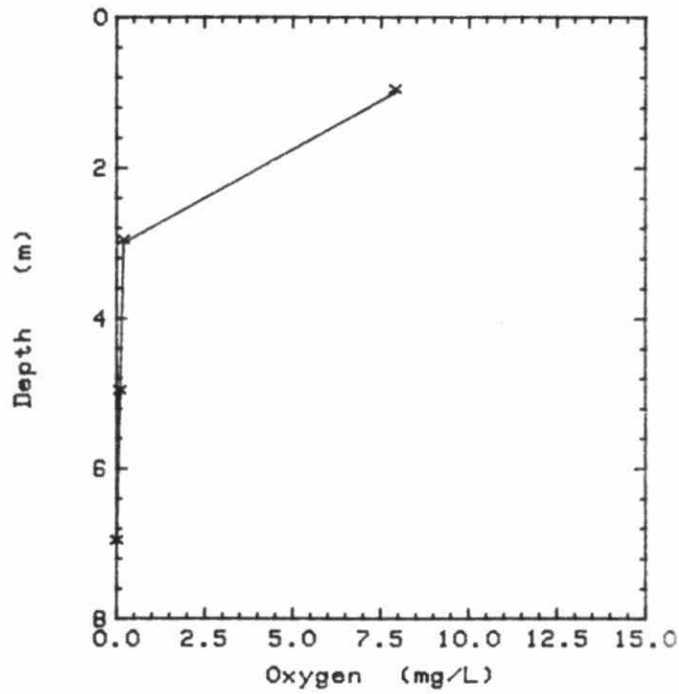
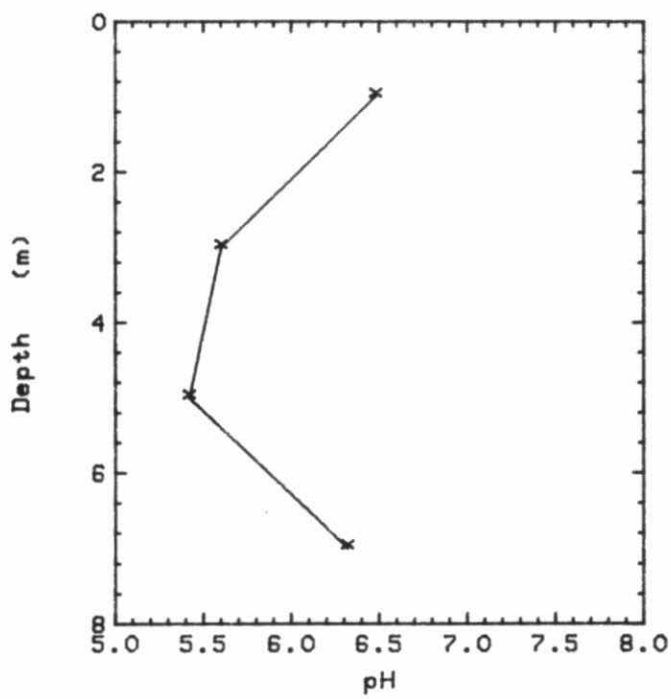
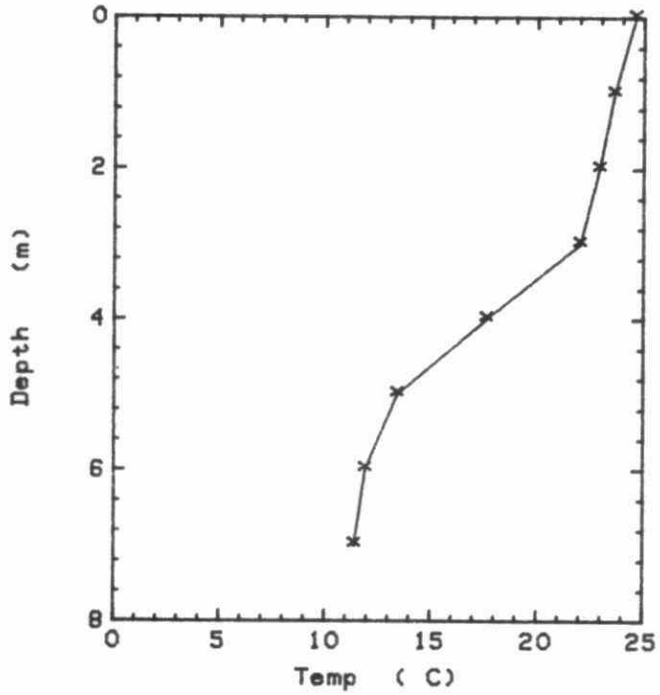
5.5
6.0
6.5
7.0
7.5
8.0
pH

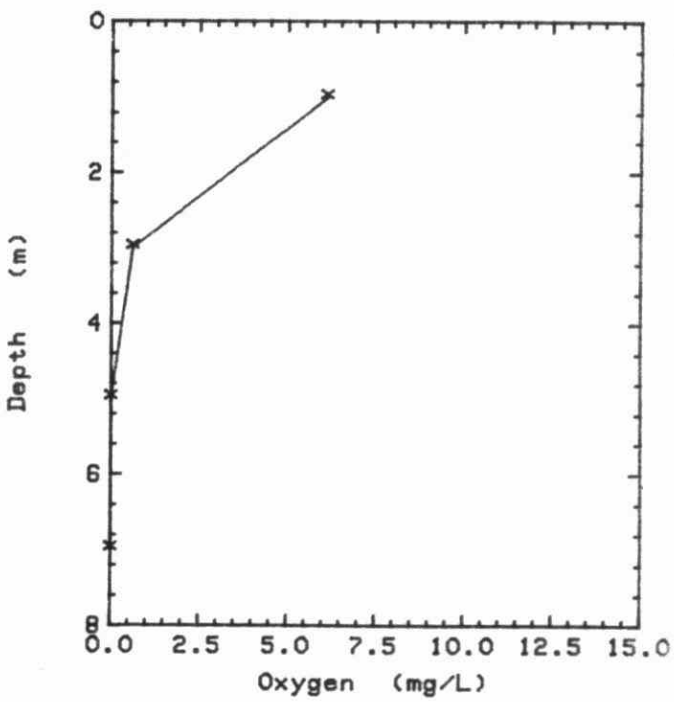
MOOT 80.07.18

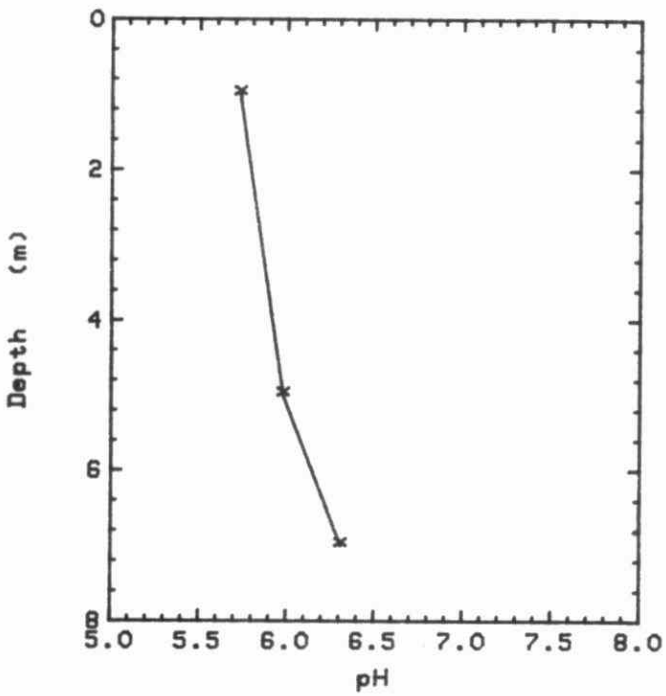

0
2
4
6
8
Depth (m)
0.0 2.5 5.0 7.5 10.0 12.5 15.0
Oxygen (mg/L)


0
2
4
6
8
Depth (m)
5.0 5.5 6.0 6.5 7.0 7.5 8.0
pH

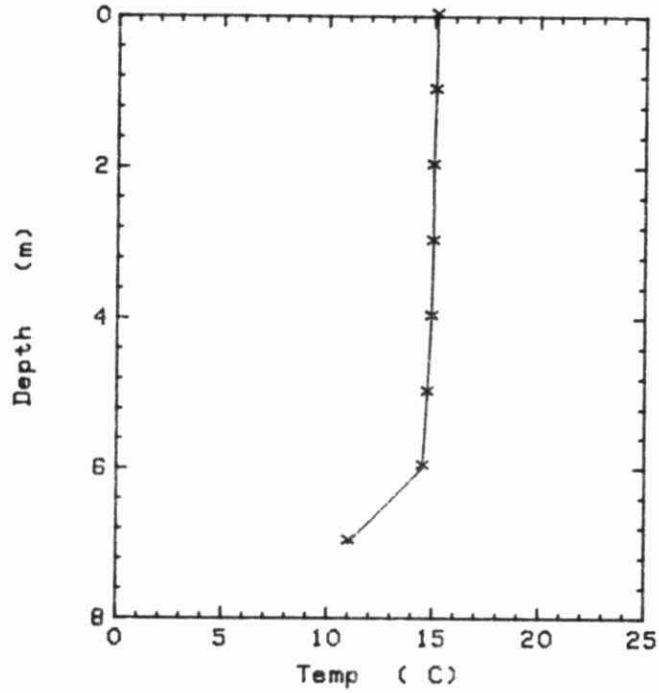
# MOOT 80.08.11

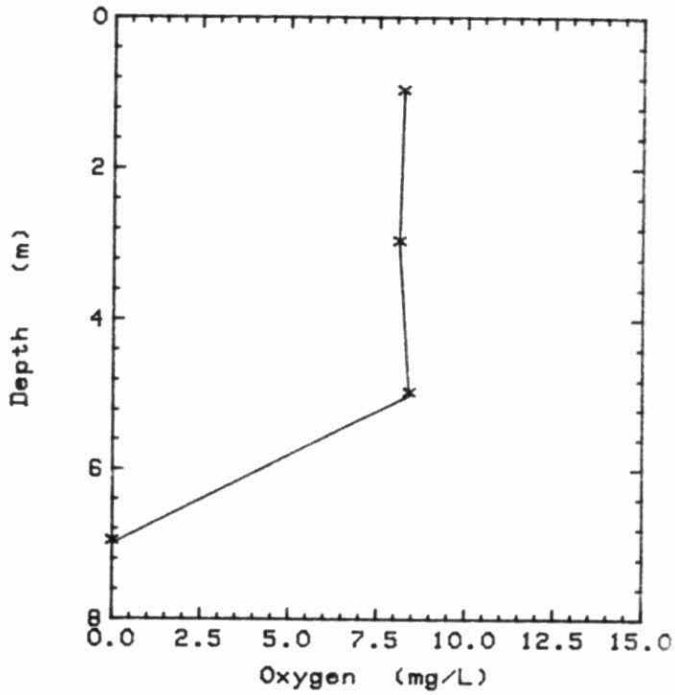

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

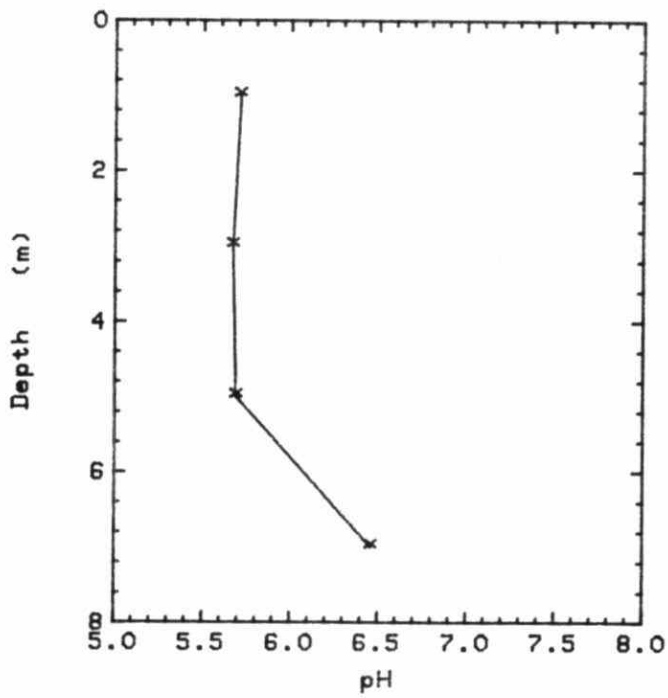

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)


Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH

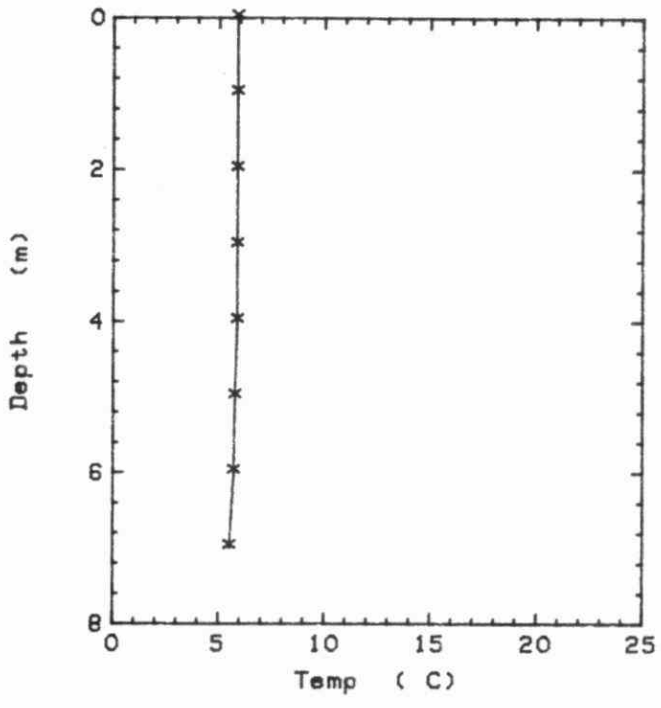
# MOOT 80.09.24

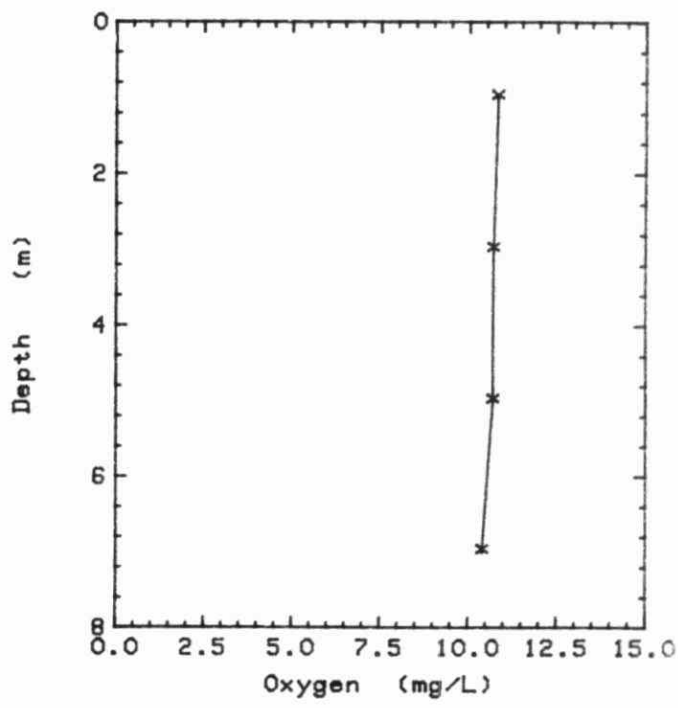

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

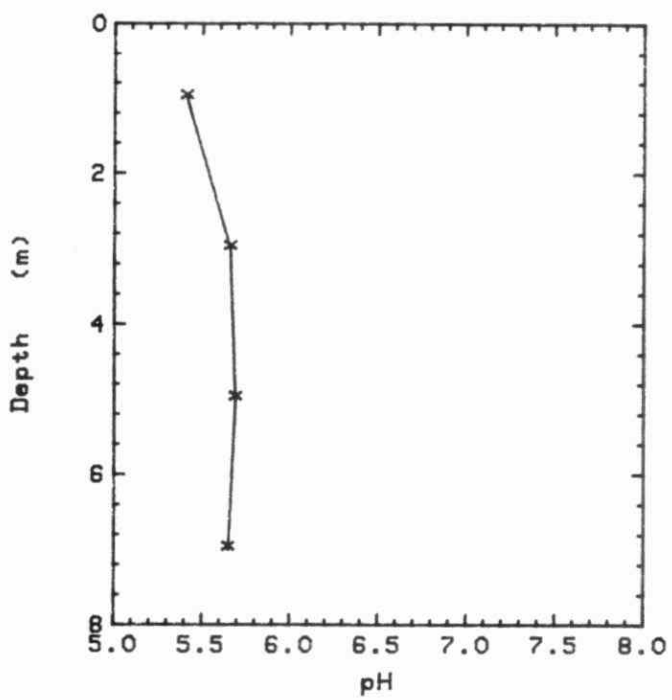

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)


Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH

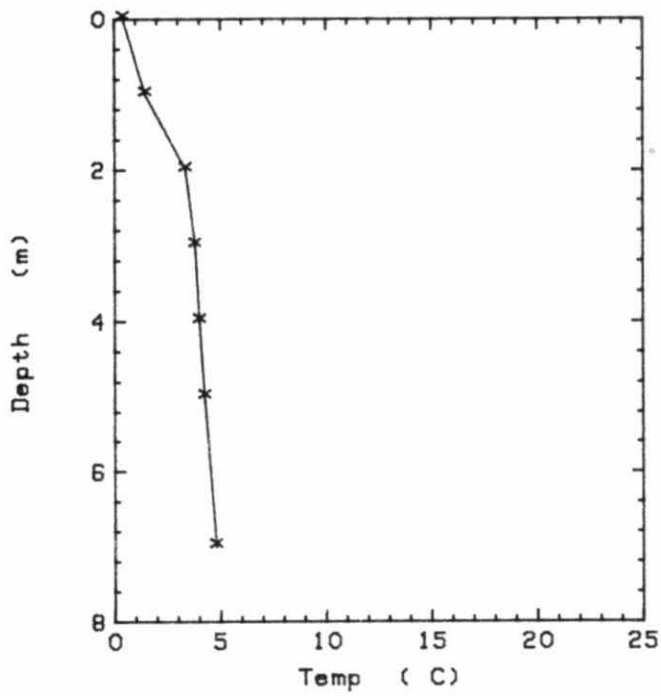
# MOOT 80.10.27

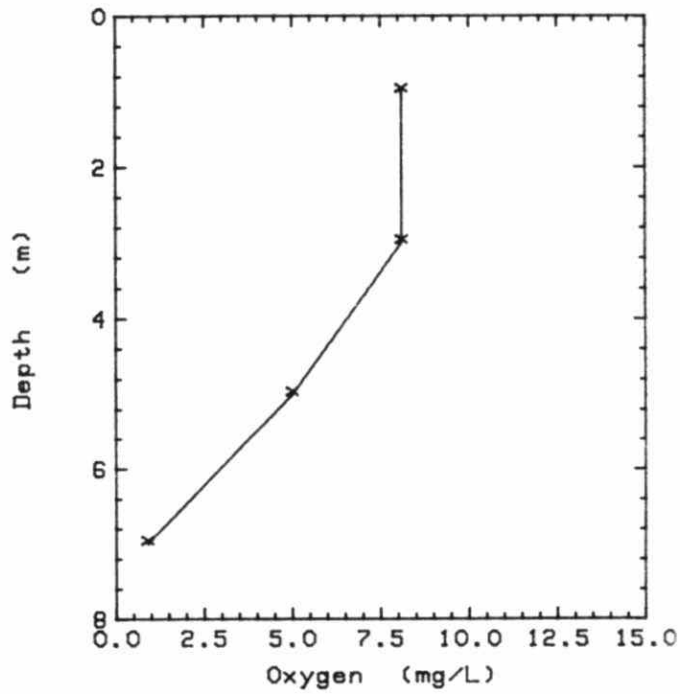

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

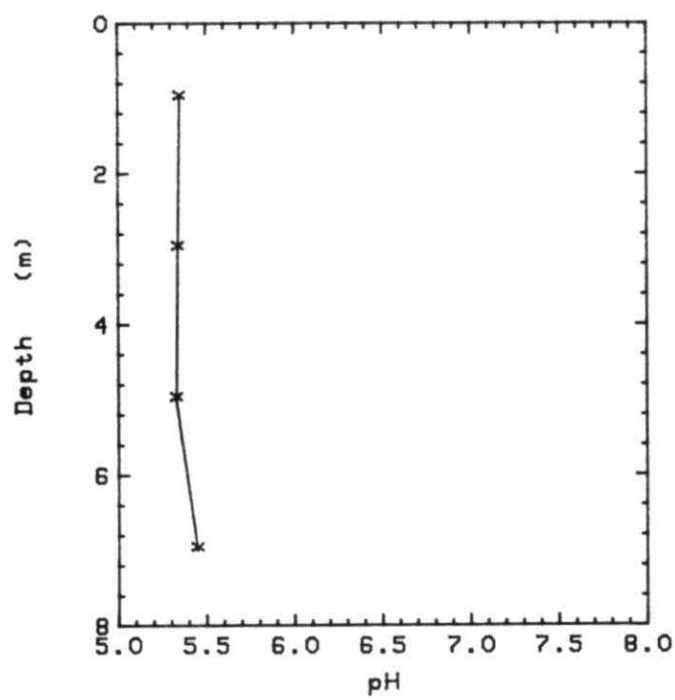

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)


Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH

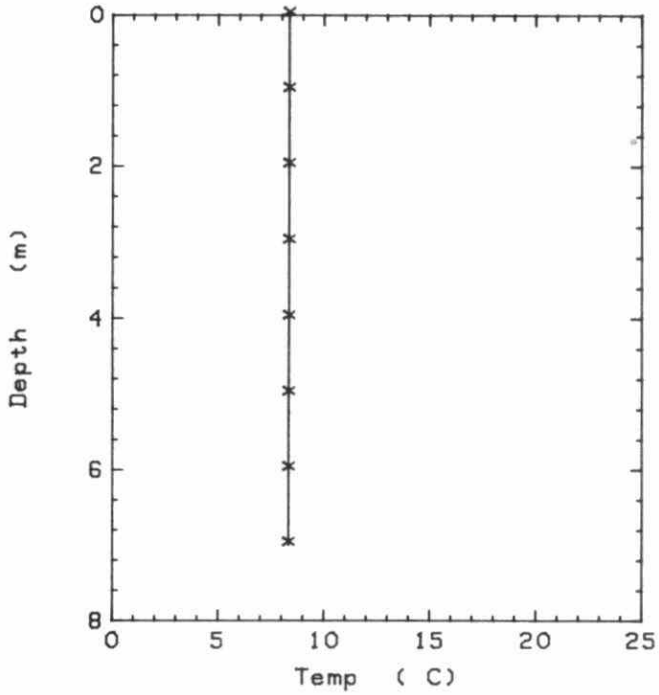
# MOOT 81.01.26

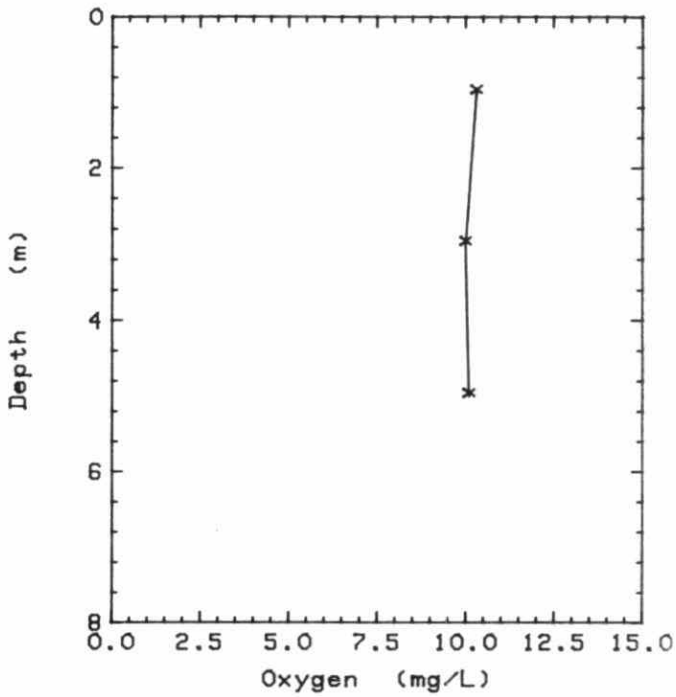

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

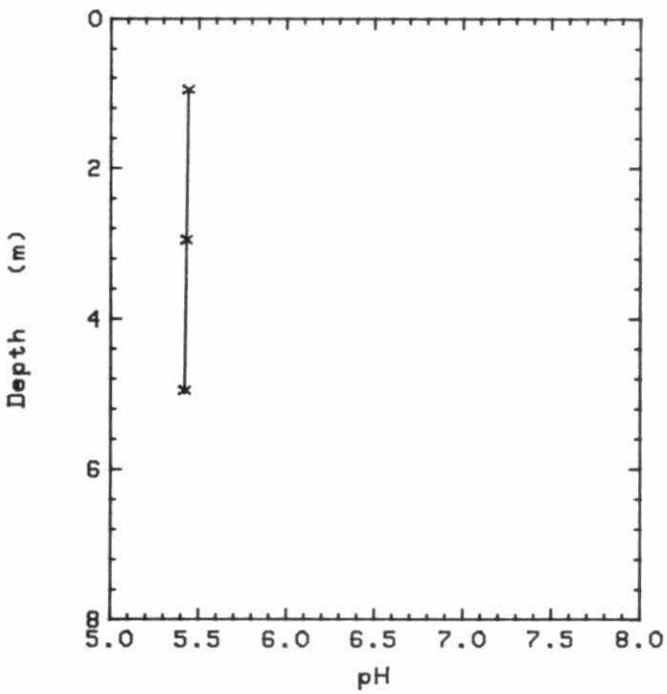

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

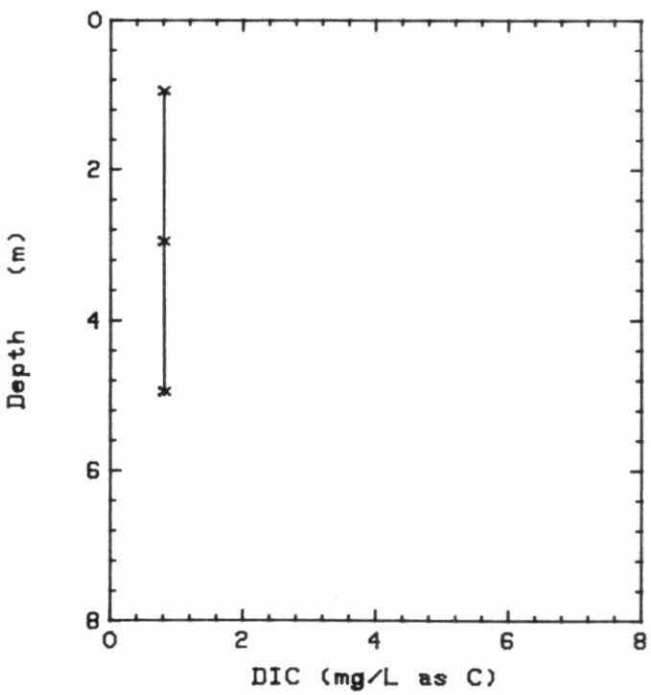

Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH

# MOOT 81.04.14

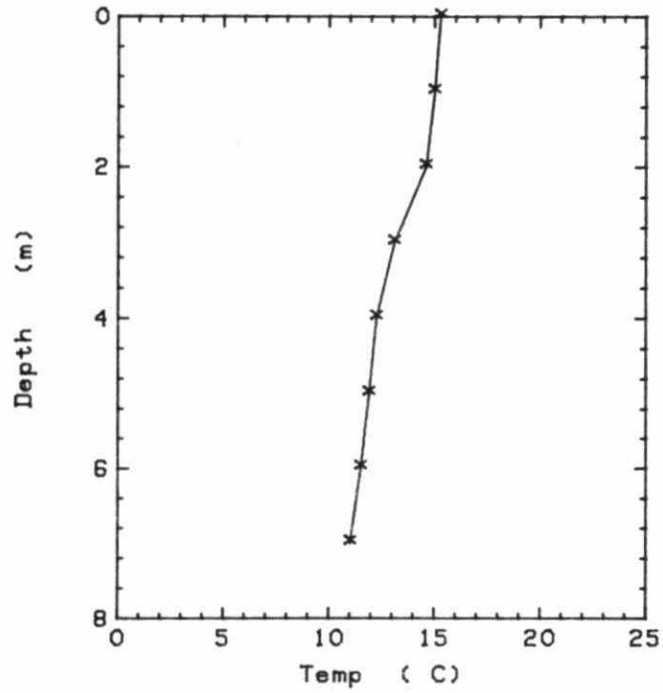

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

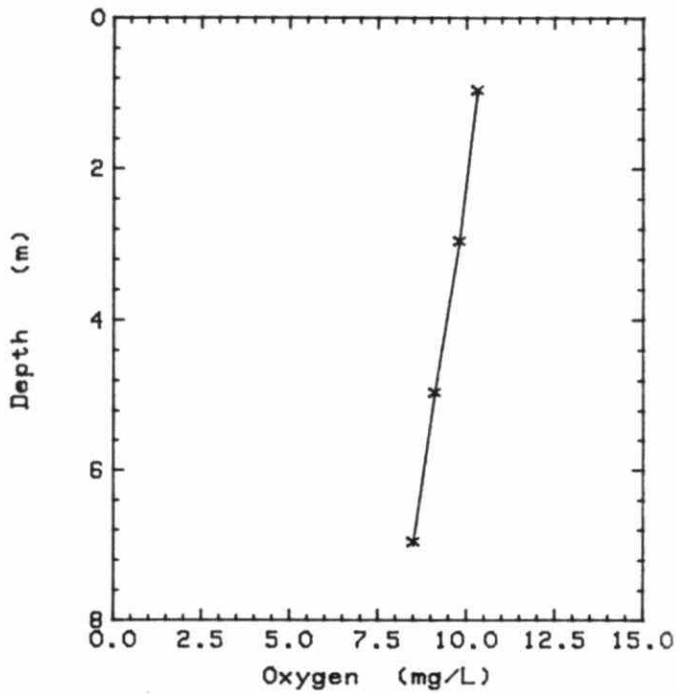

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

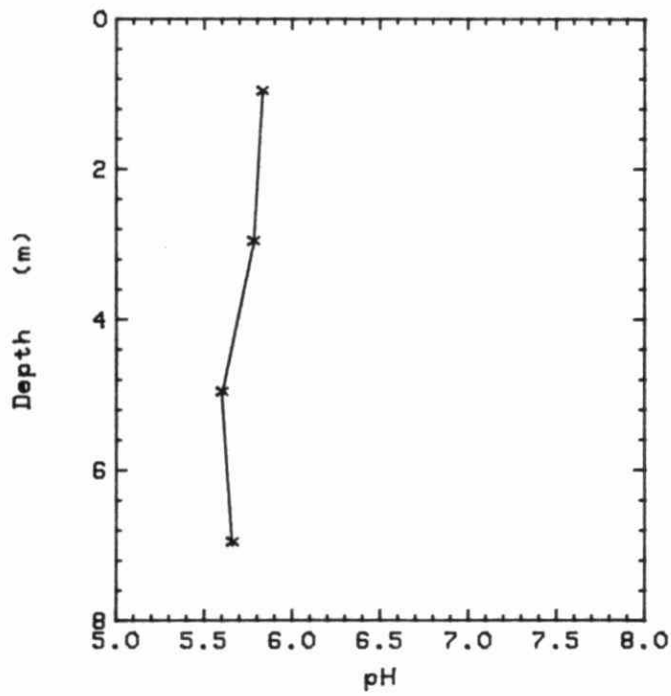

Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH

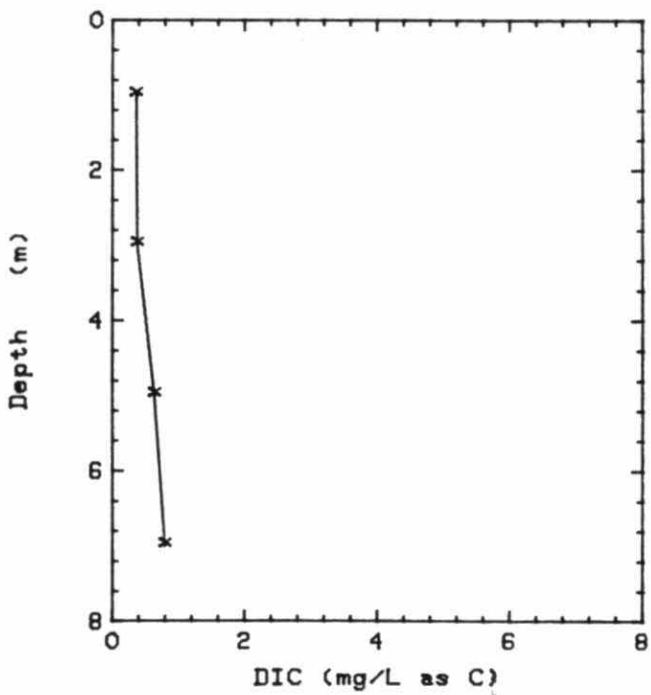

Depth (m)
0
2
4
6
8
0
2
4
6
8
DIC (mg/L as C)

# MOOT 81.05.21

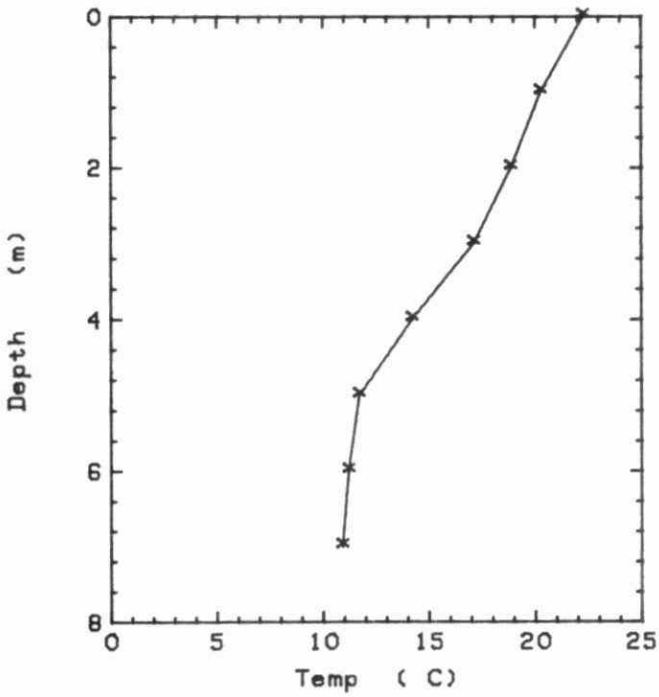

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

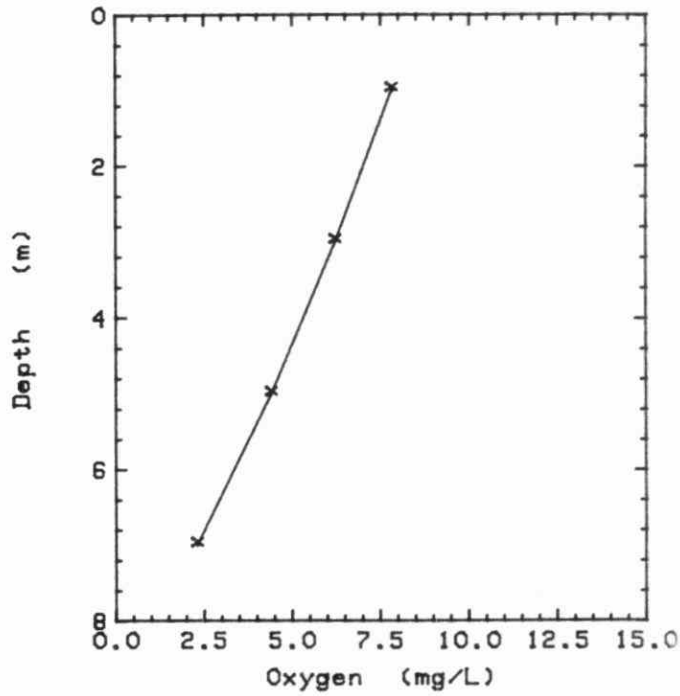

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

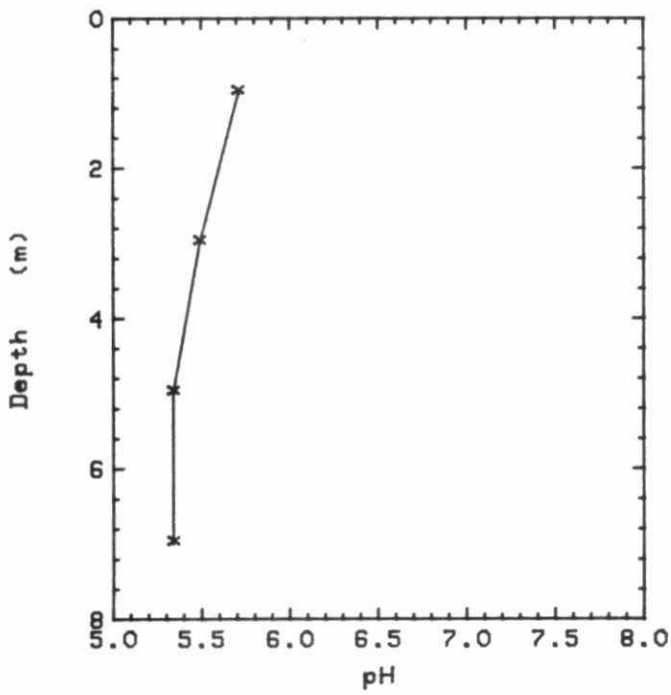

Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH

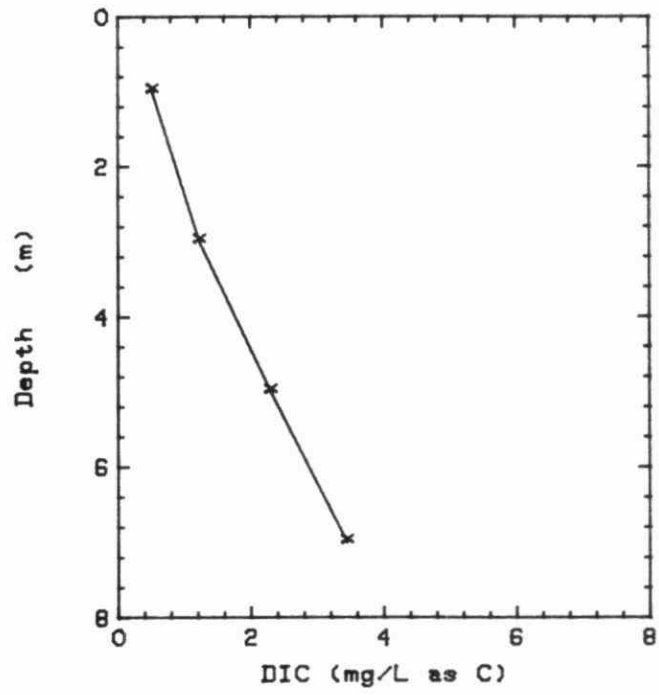

Depth (m)
0
2
4
6
8
0
2
4
6
8
DIC (mg/L as C)

# MOOT 81.06.15

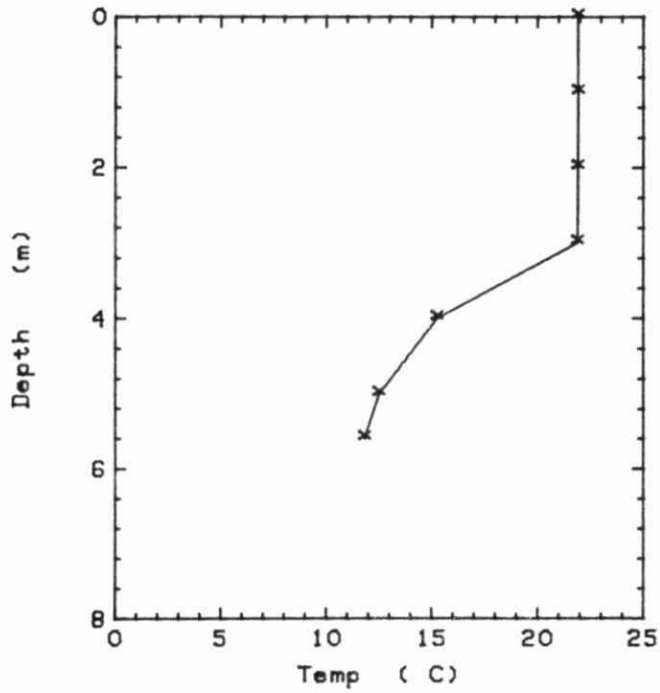

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

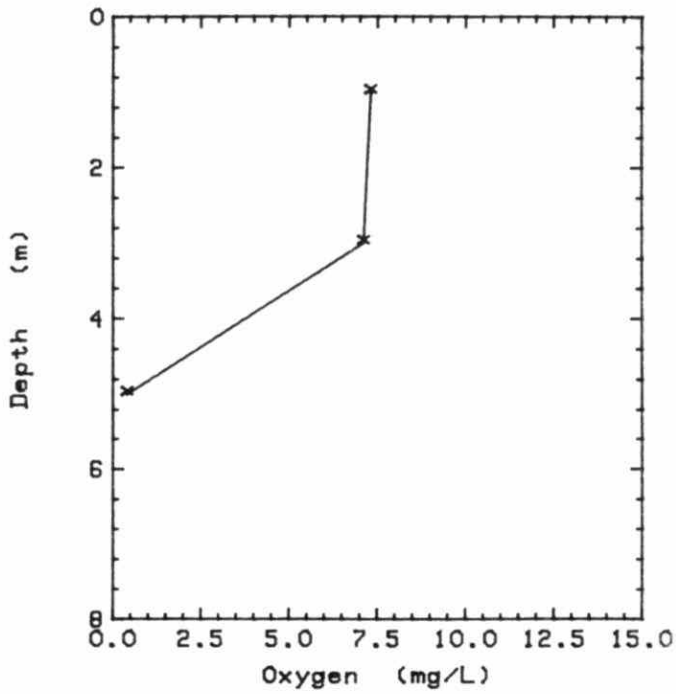

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

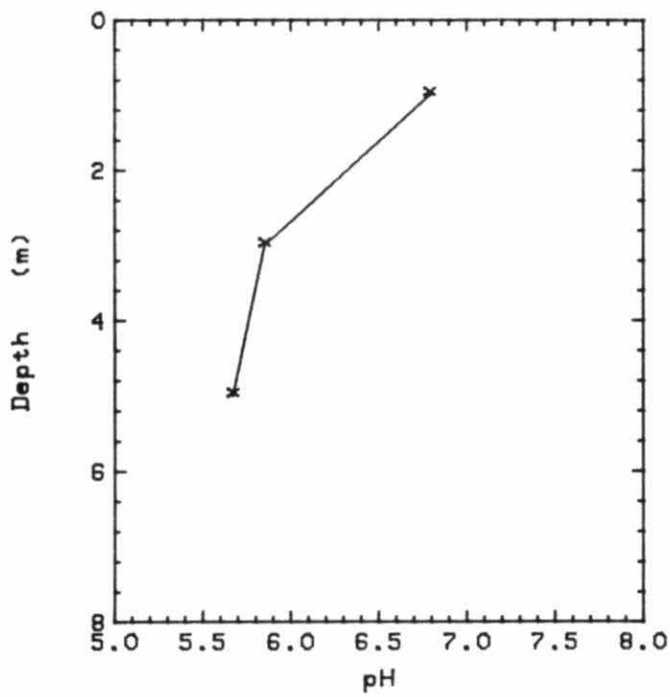

Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH

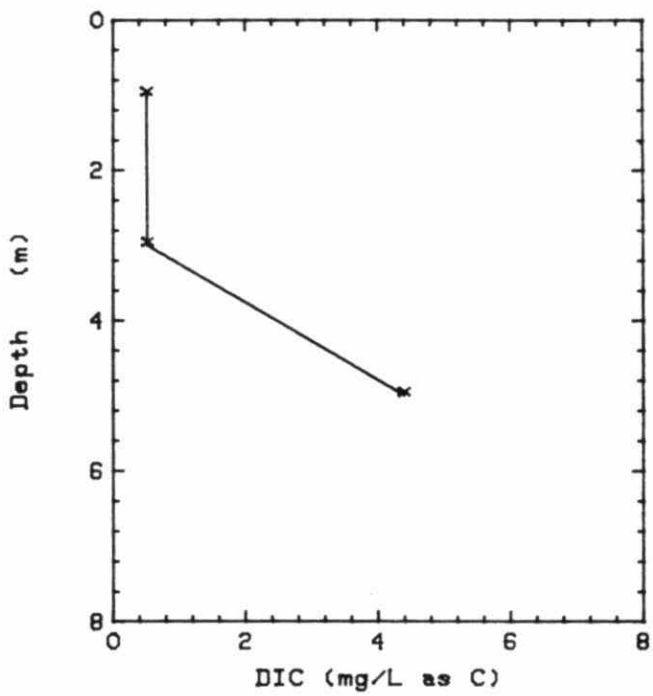

Depth (m)
0
2
4
6
8
0
2
4
6
8
DIC (mg/L as C)

# MOOT 81.07.22

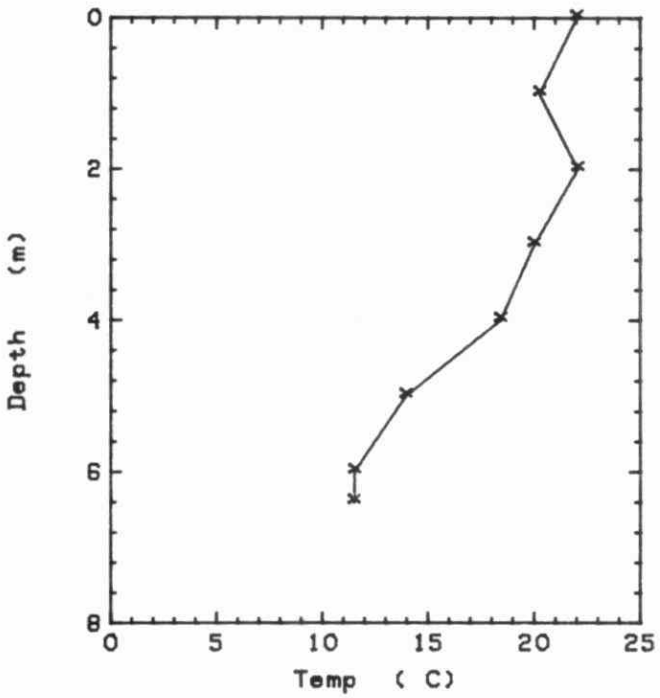

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

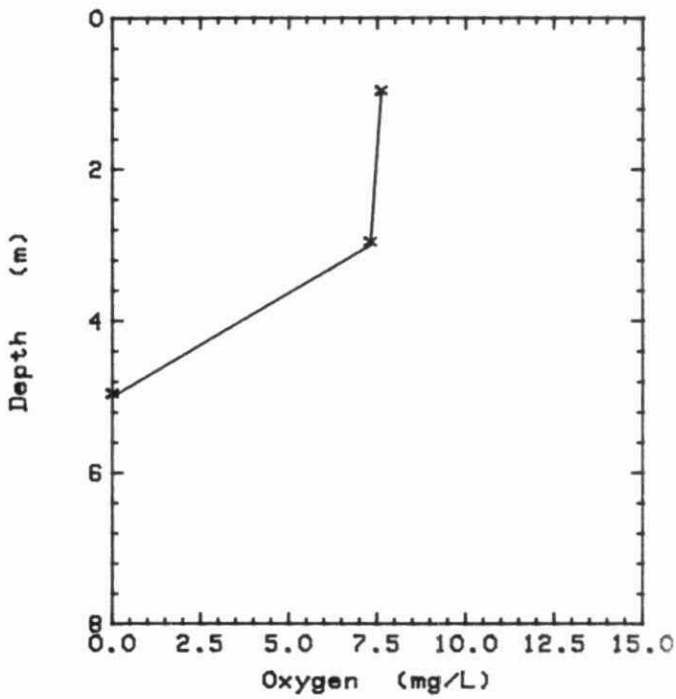

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

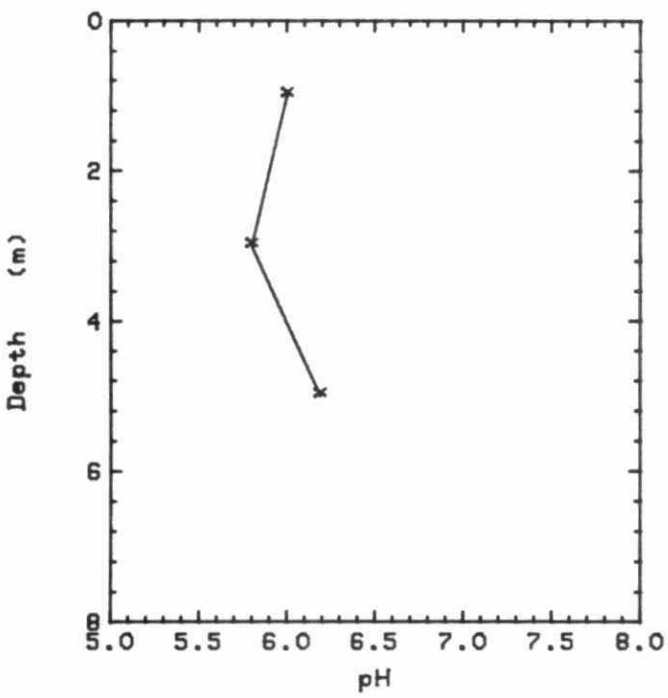

Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH

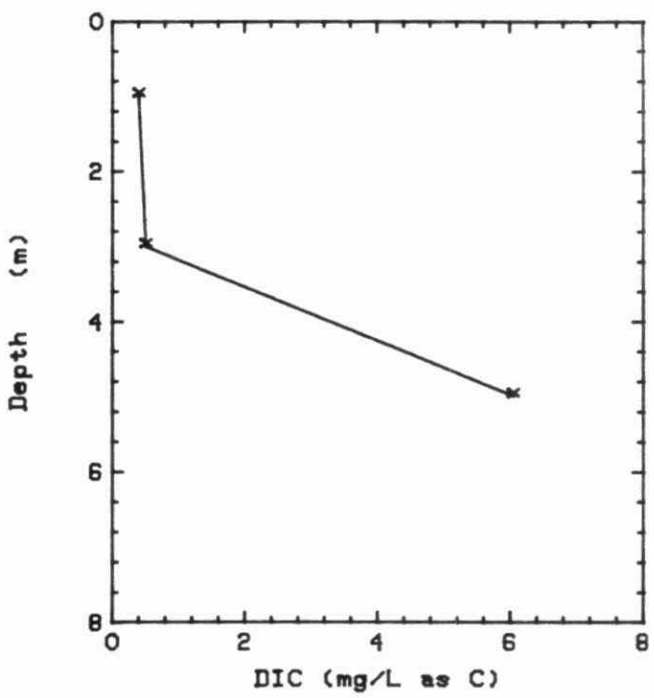

Depth (m)
0
2
4
6
8
0
2
4
6
8
DIC (mg/L as C)

# MOOT 81.08.25

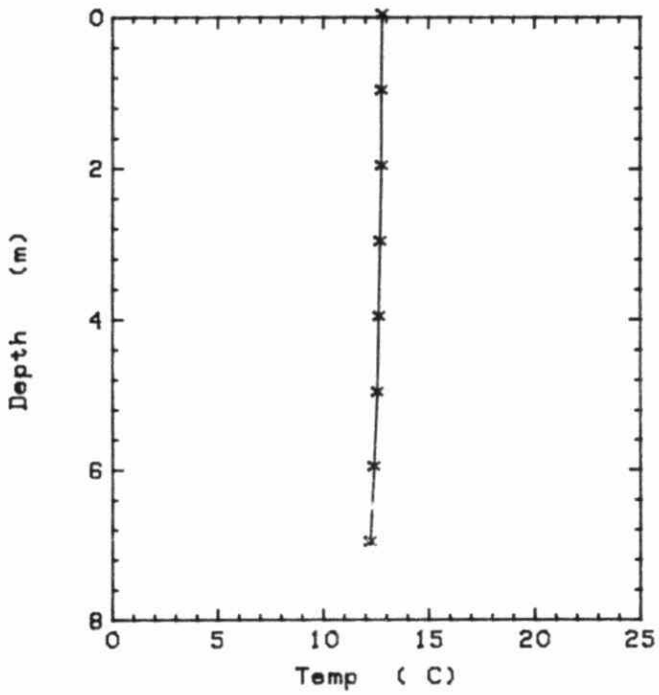

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

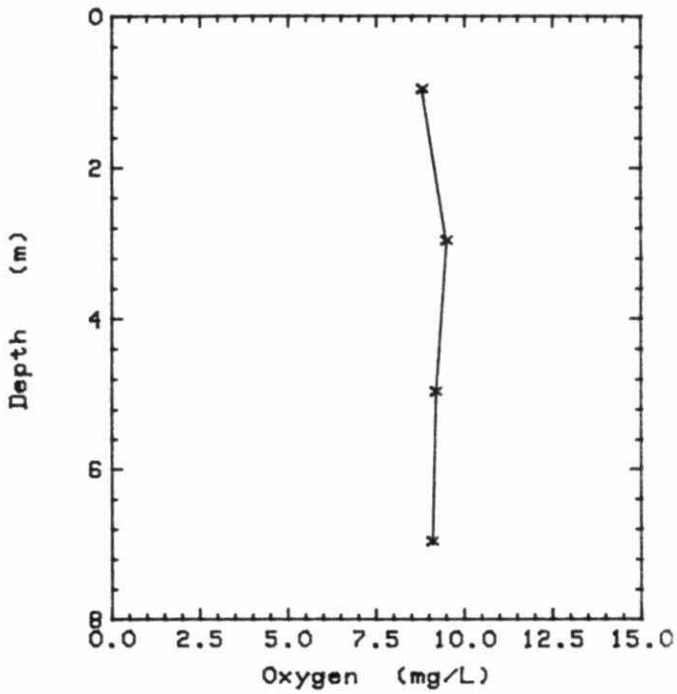

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

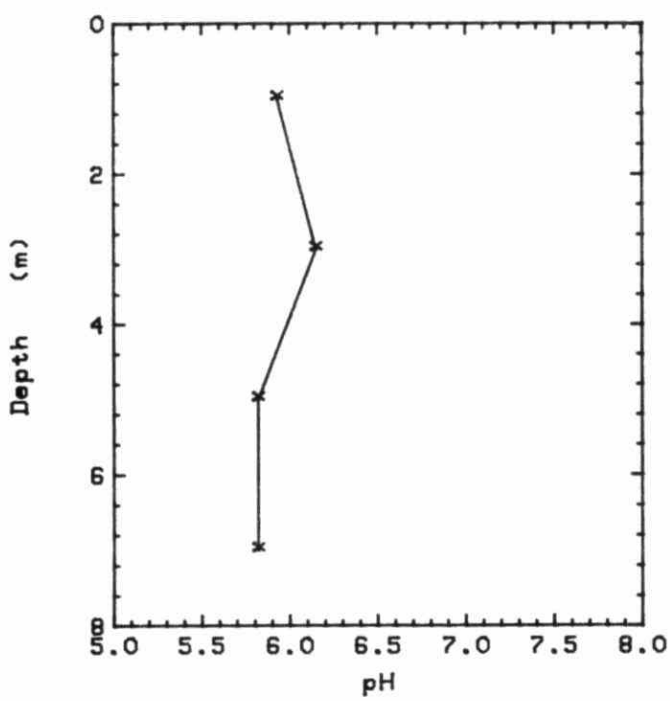

Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH

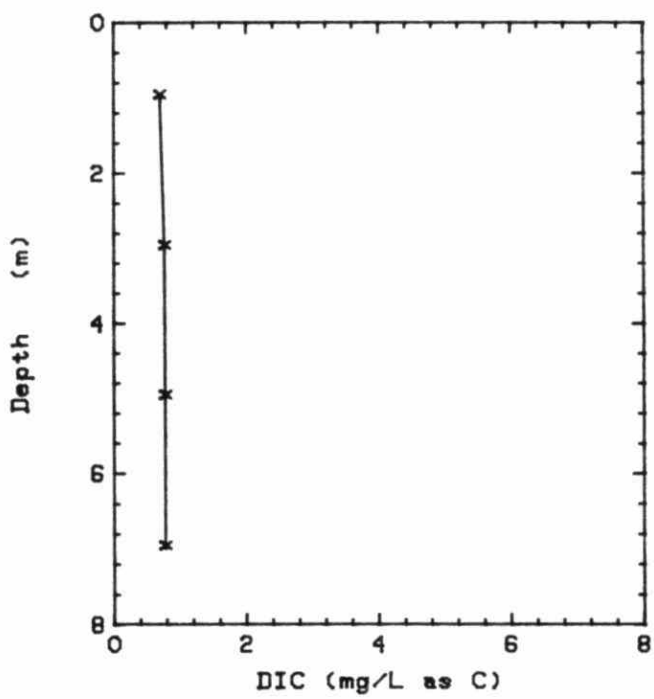

Depth (m)
0
2
4
6
8
0
2
4
6
8
DIC (mg/L as C)

# MOOT 81.09.30

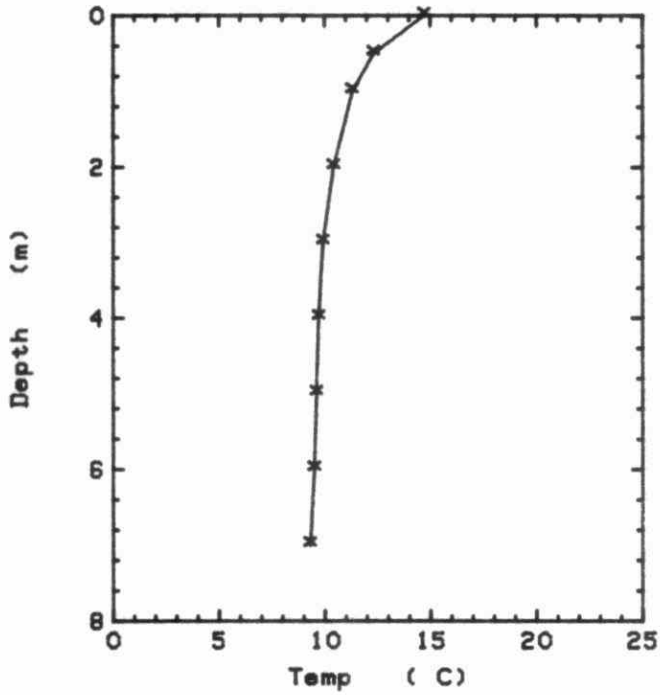

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

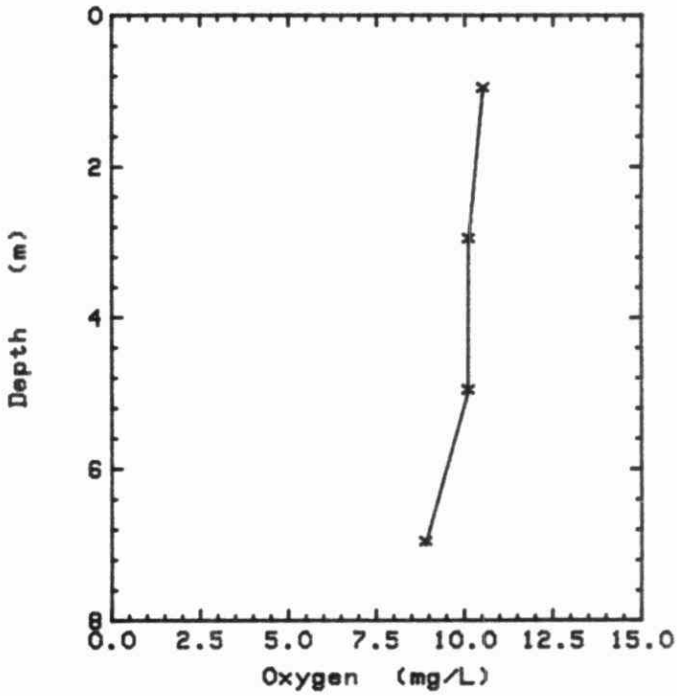

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

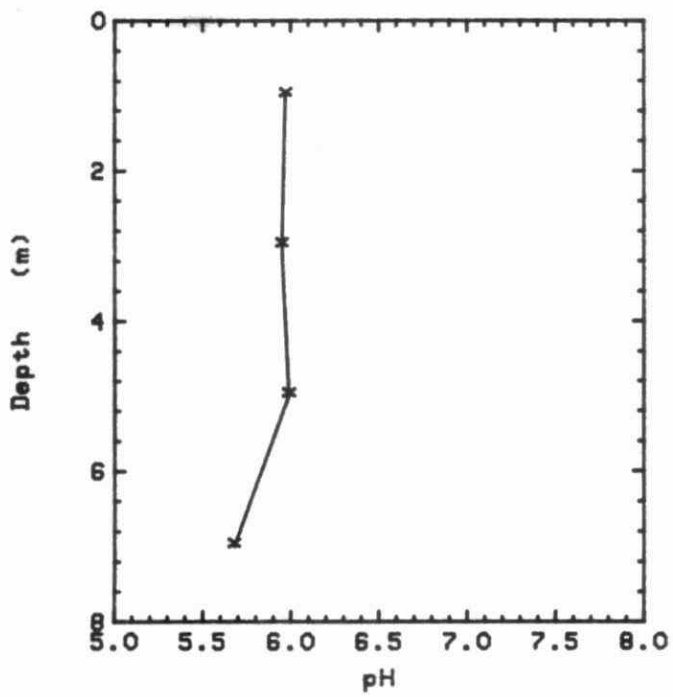

Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH


Depth (m)
0
2
4
6
8
0
2
4
6
8
DIC (mg/L as C)

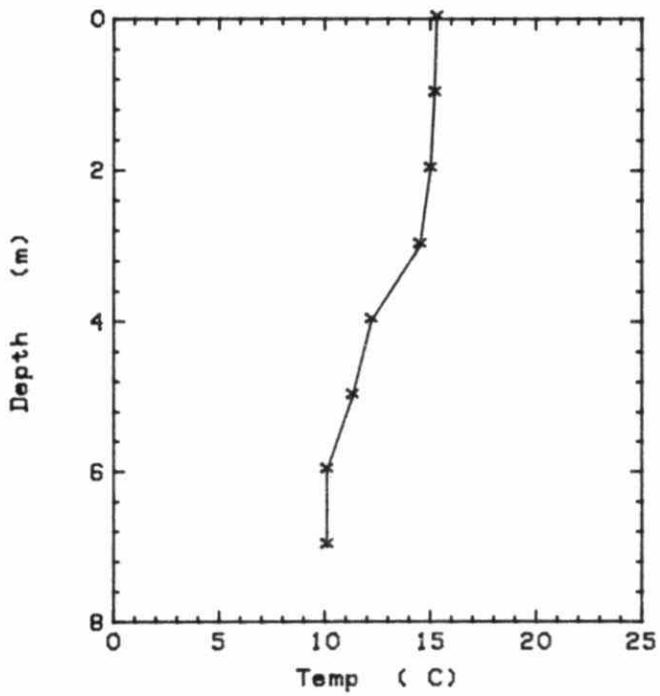
# MOOT 83.05.12

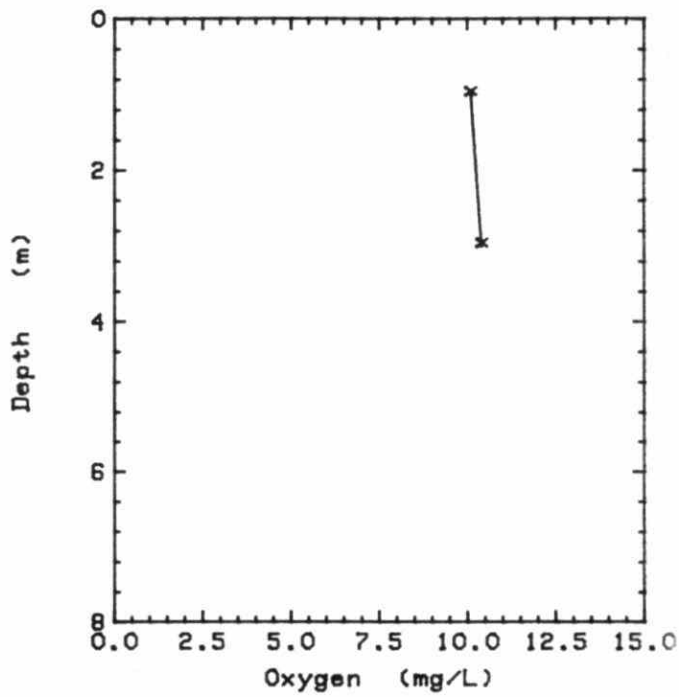

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

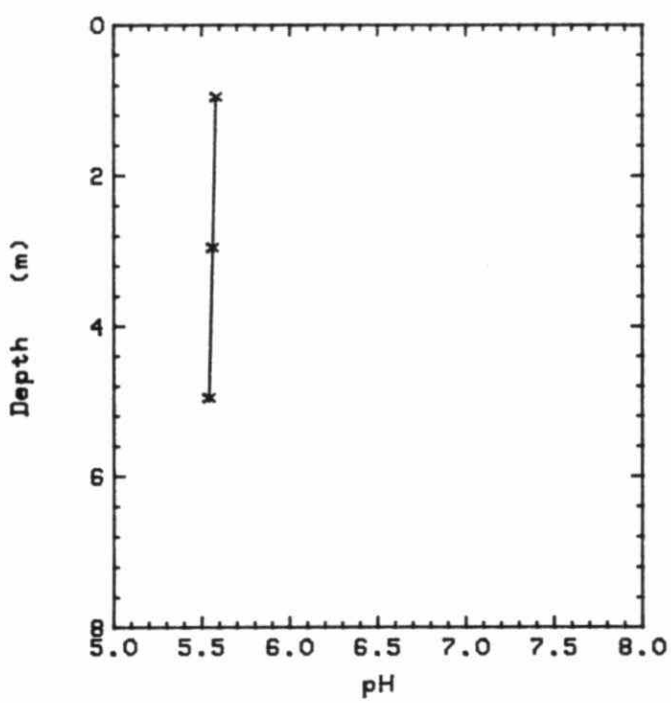

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

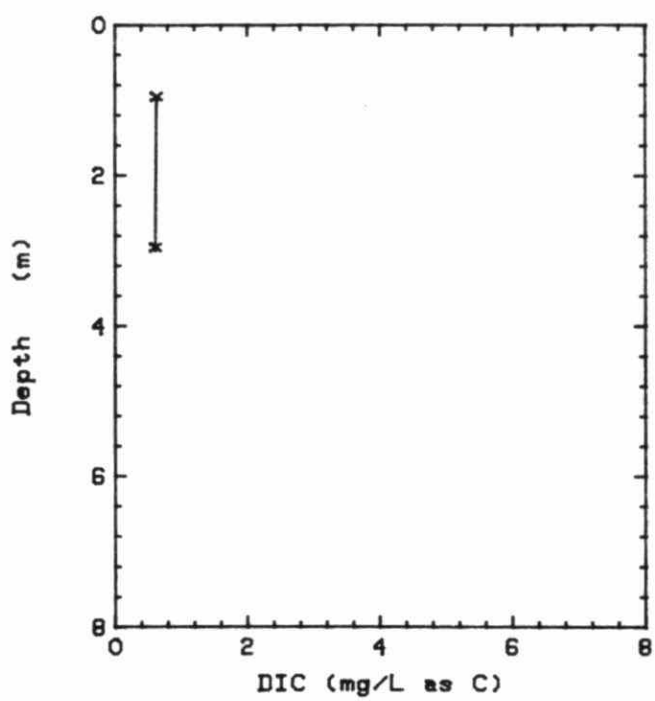

Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH

# MOOT 83.06.09

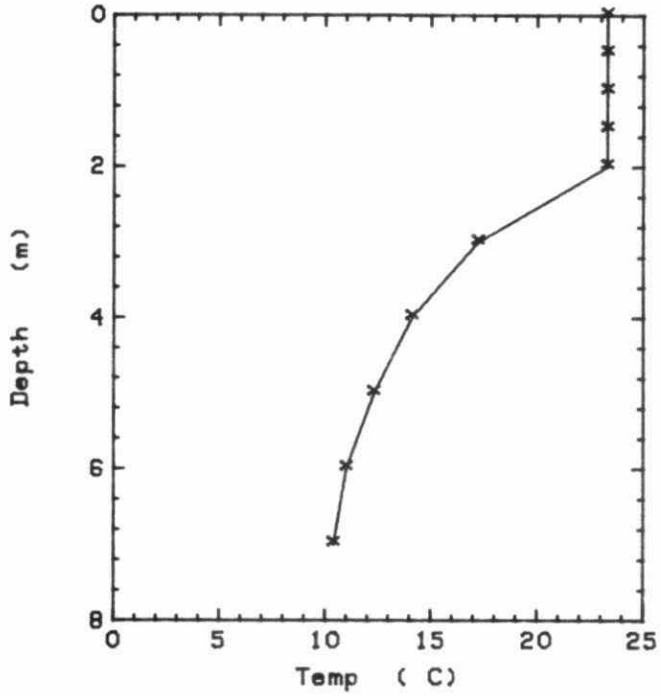

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

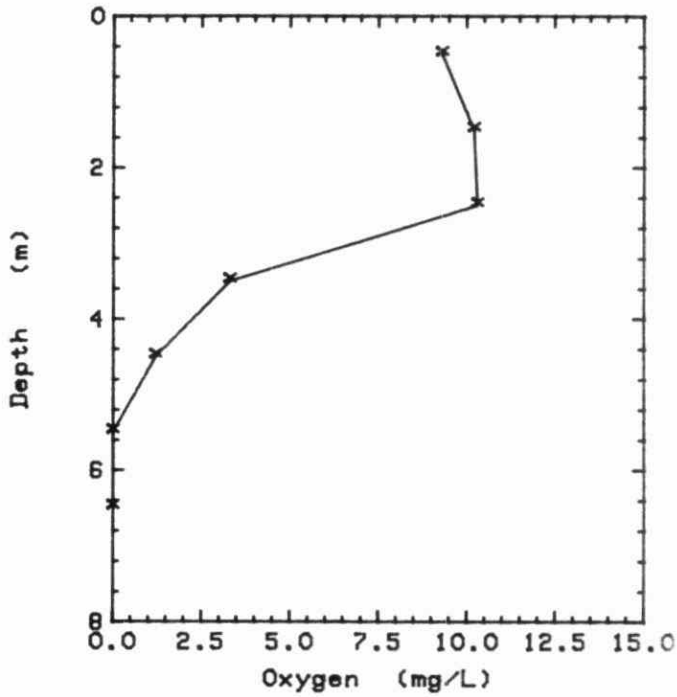

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

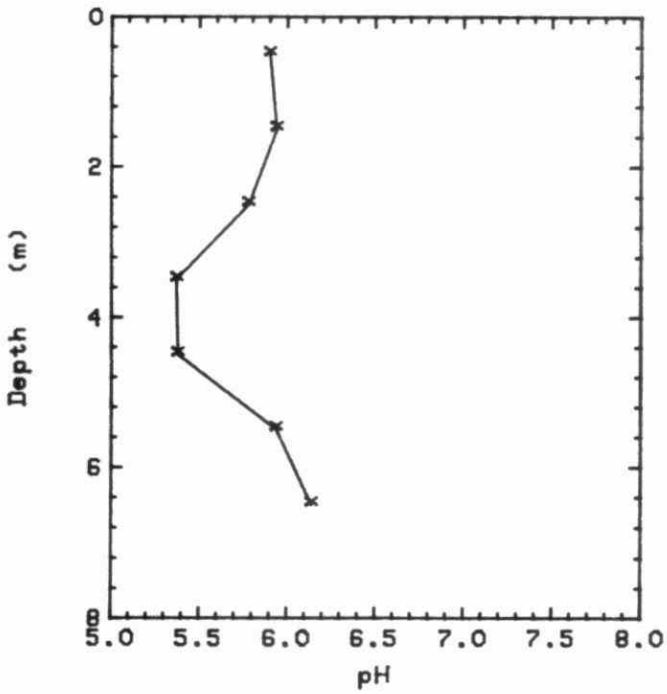

Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH

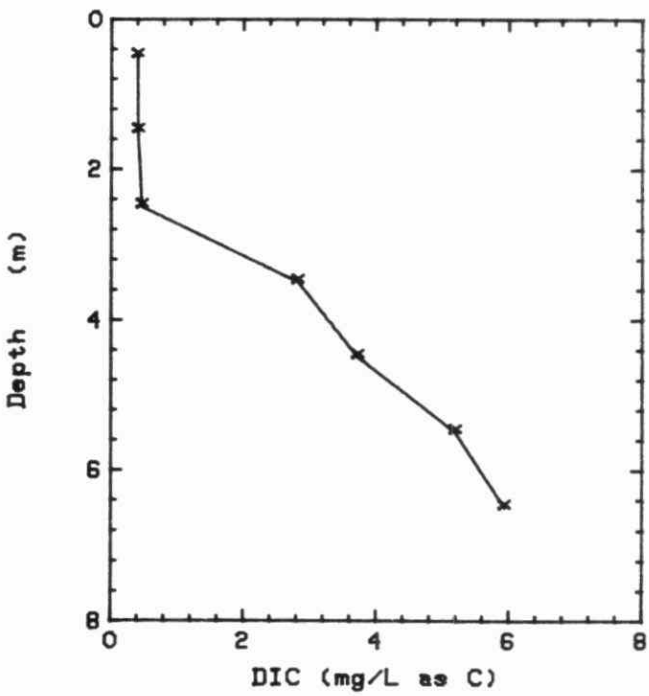

Depth (m)
0
2
4
6
8
0
2
4
6
8
DIC (mg/L as C)

# MOOT 83.07.05

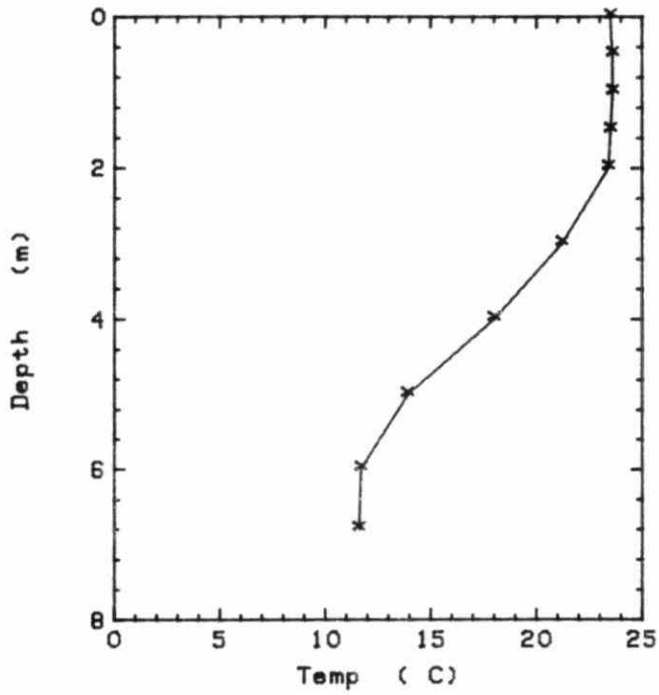

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

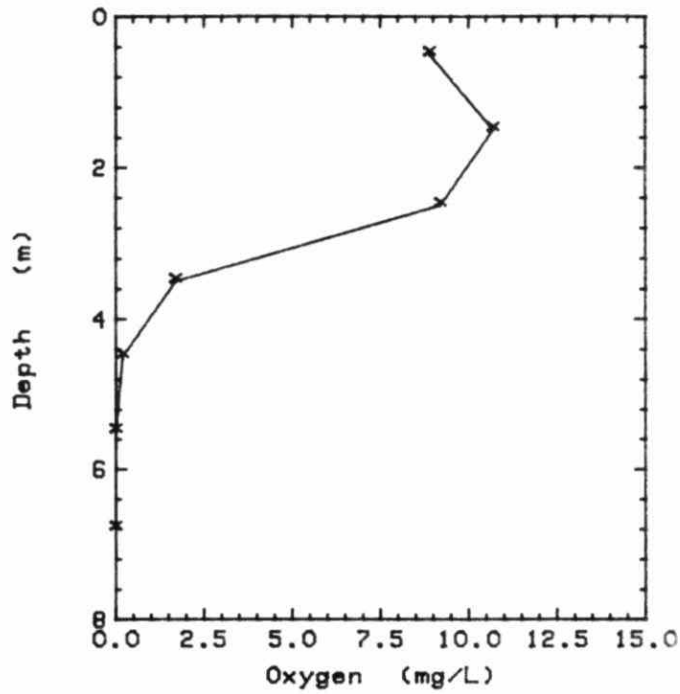

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

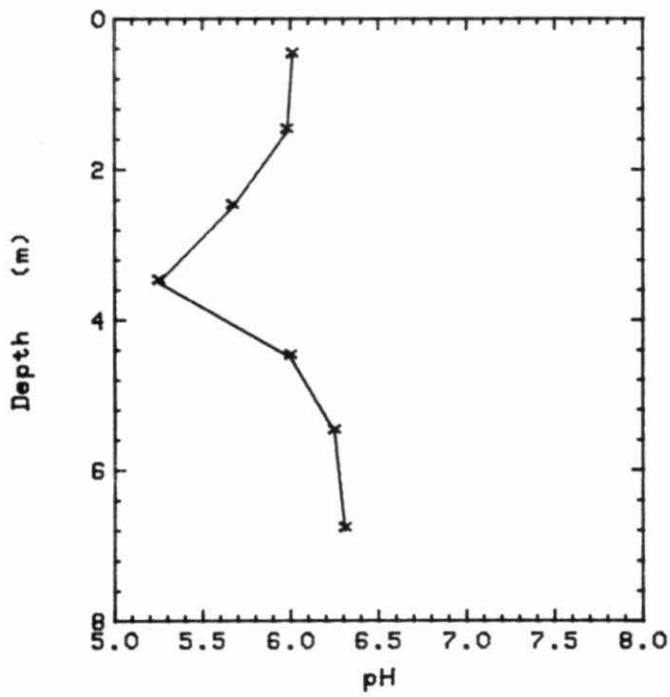

Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH

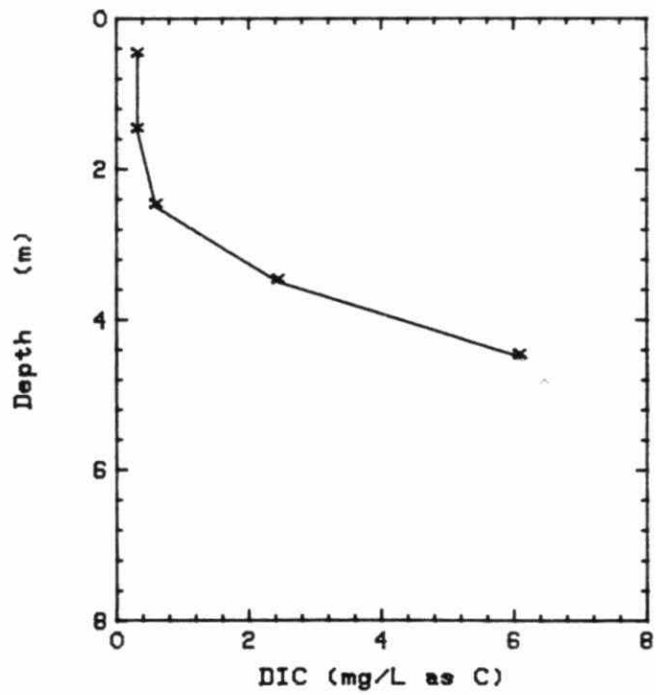

Depth (m)
0
2
4
6
8
0
2
4
6
8
DIC (mg/L as C)

# MOOT 83.08.30

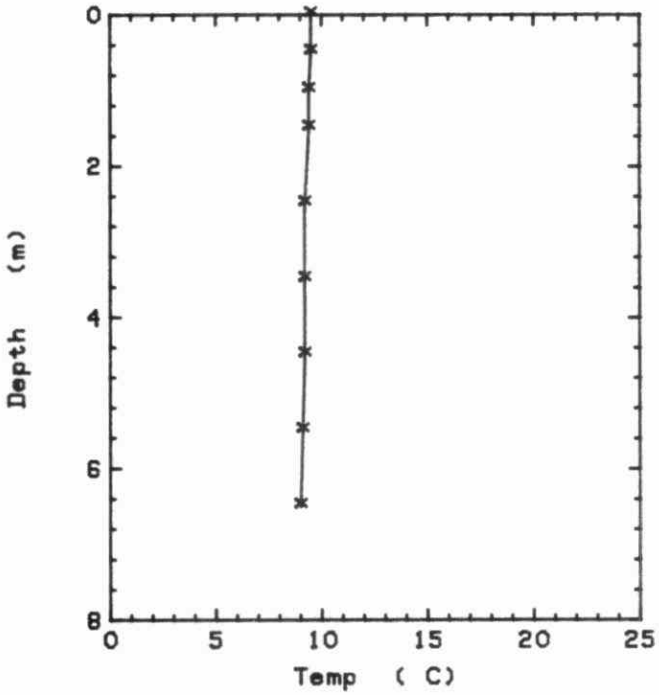

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

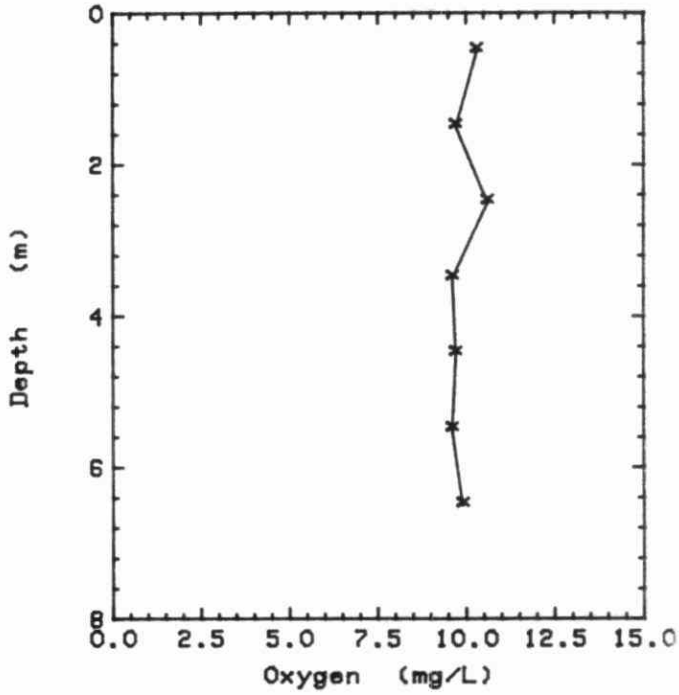

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

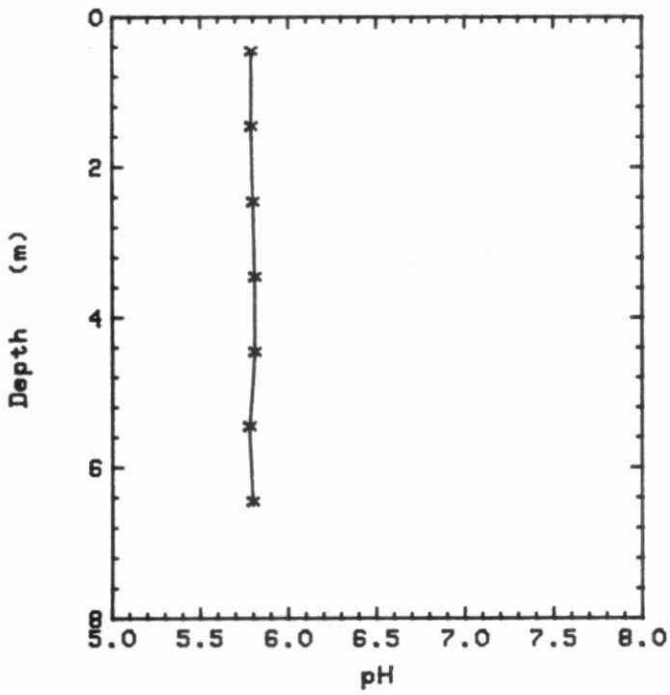

Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH

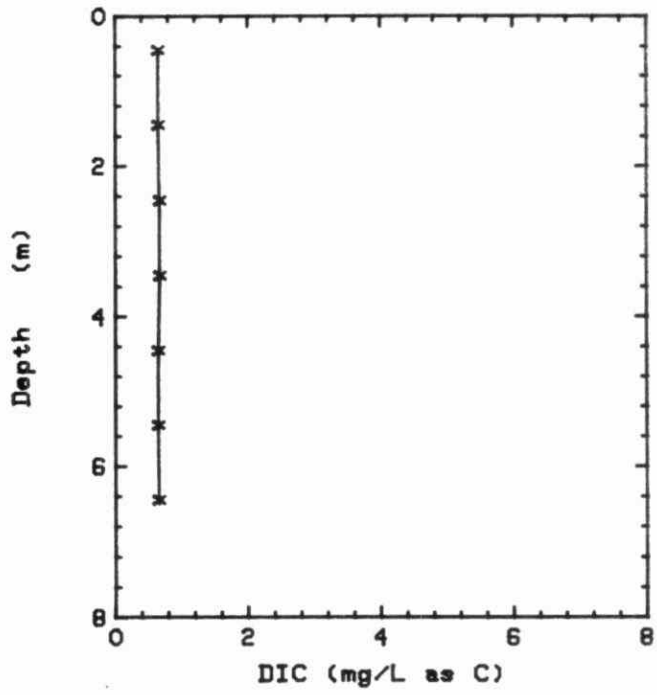

Depth (m)
0
2
4
6
8
0
2
4
6
8
DIC (mg/L as C)

# MOOT 83.10.20

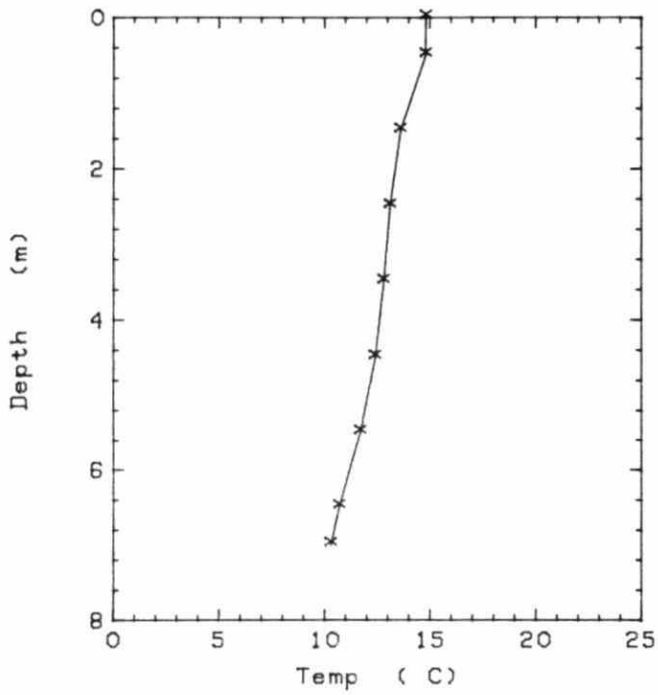

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

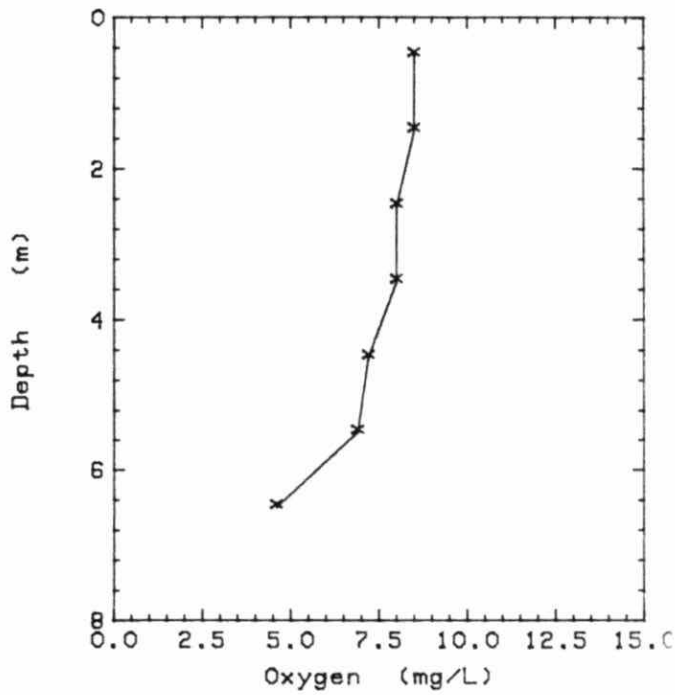

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

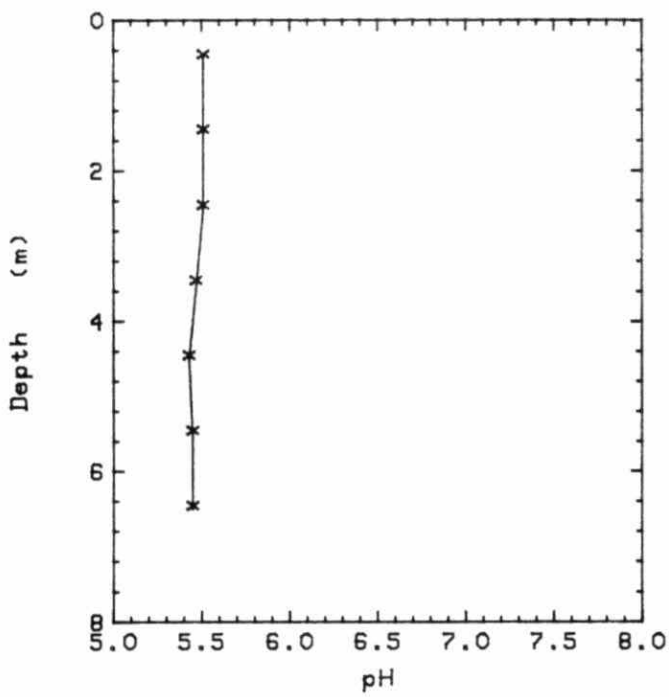

Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH


Depth (m)
0
2
4
6
8
0
2
4
6
8
DIC (mg/L as C)

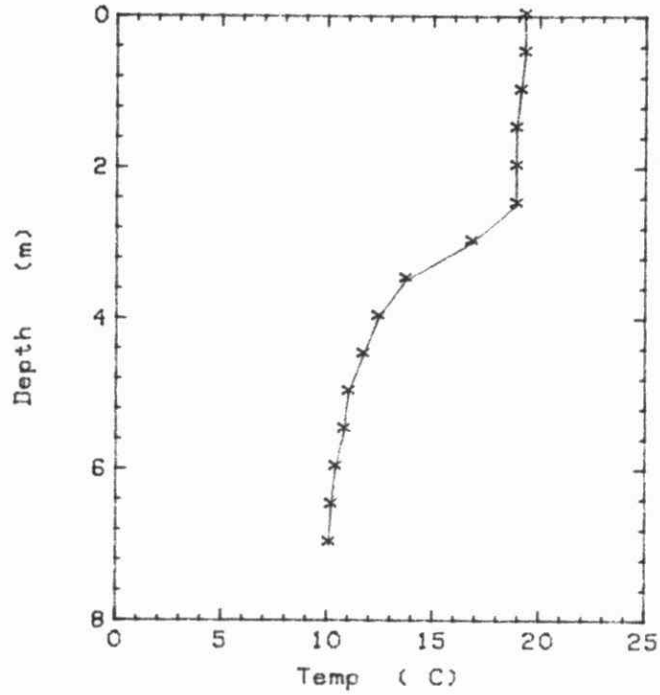
# MOOT 84.05.31

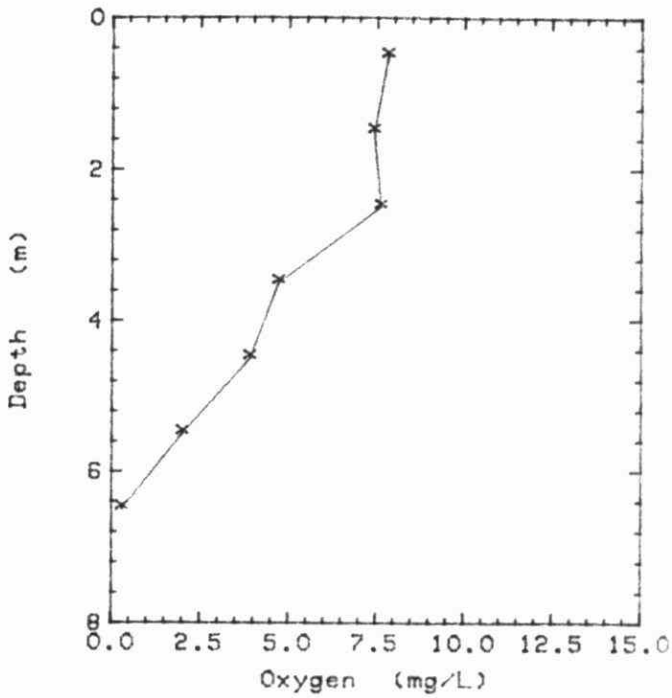

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

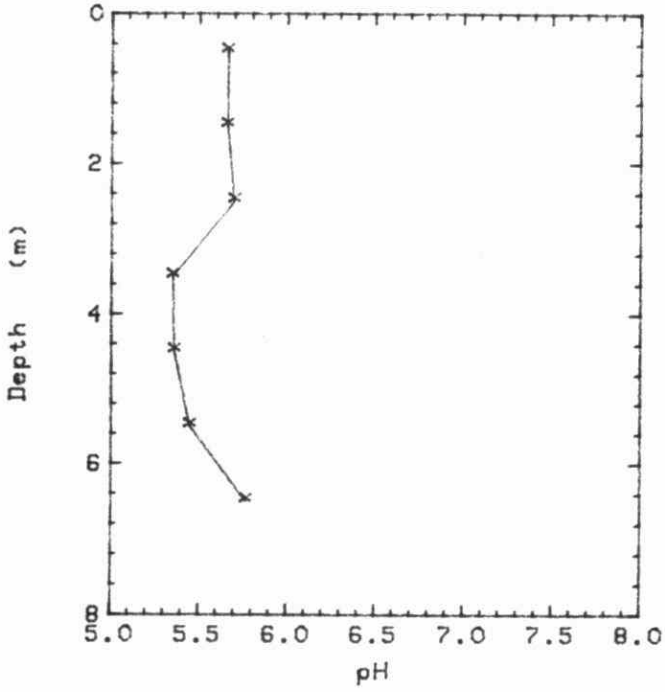

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

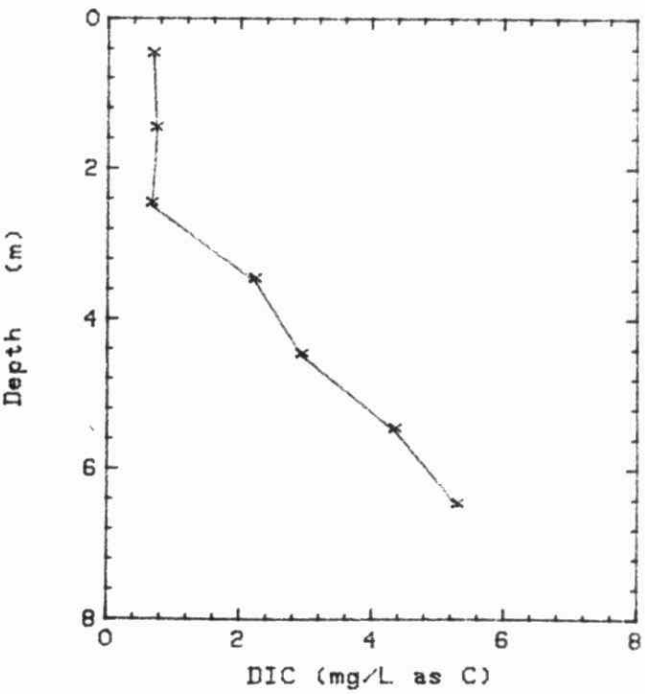

Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH

# MOOT 84.06.26

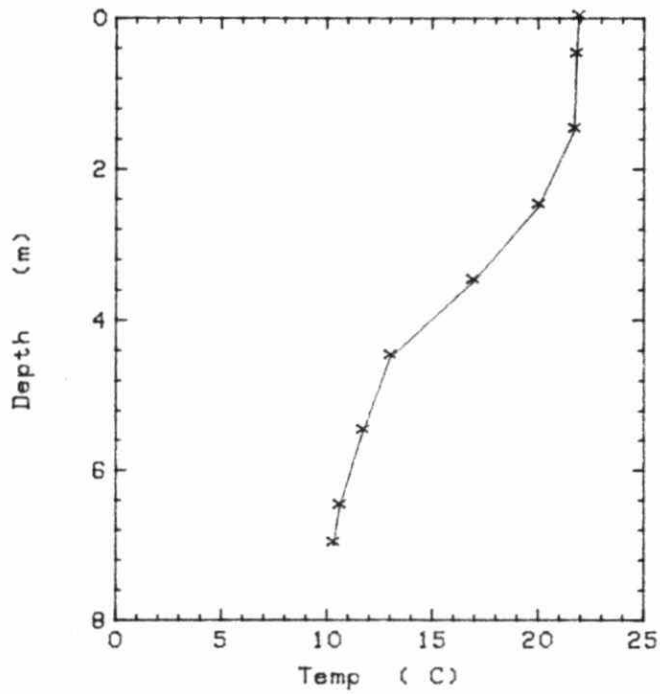

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

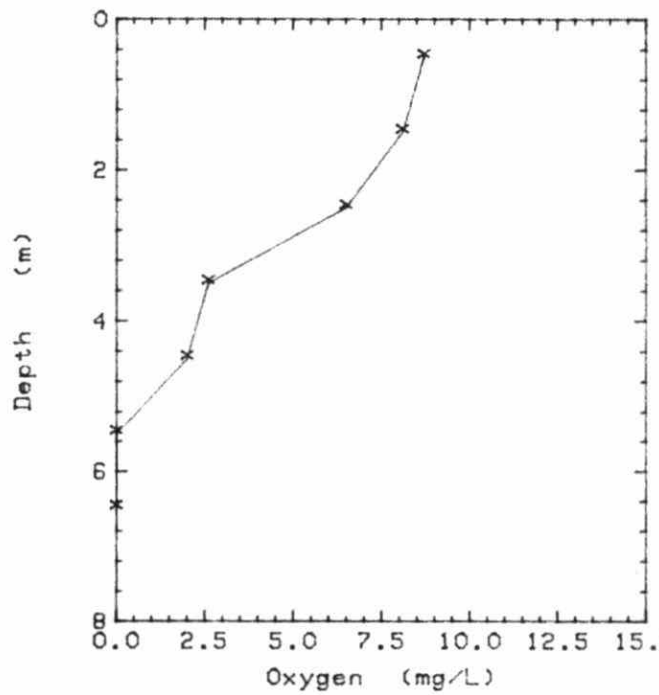

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

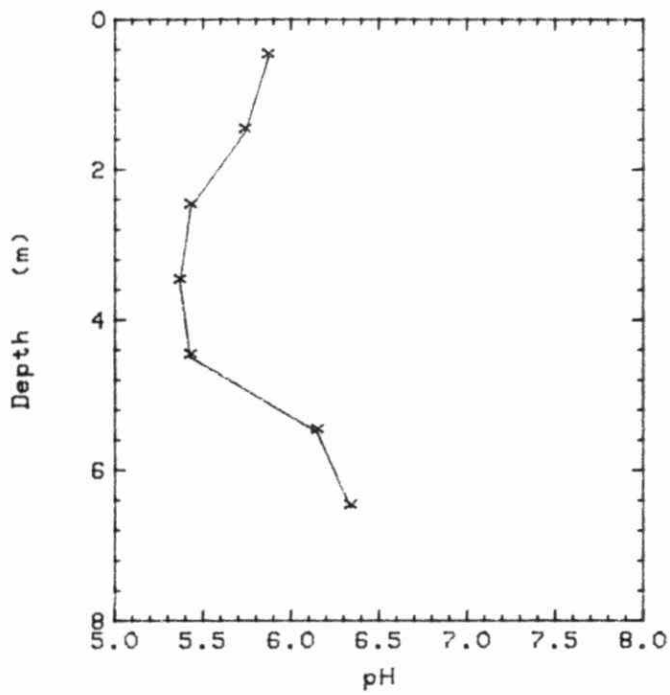

Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH

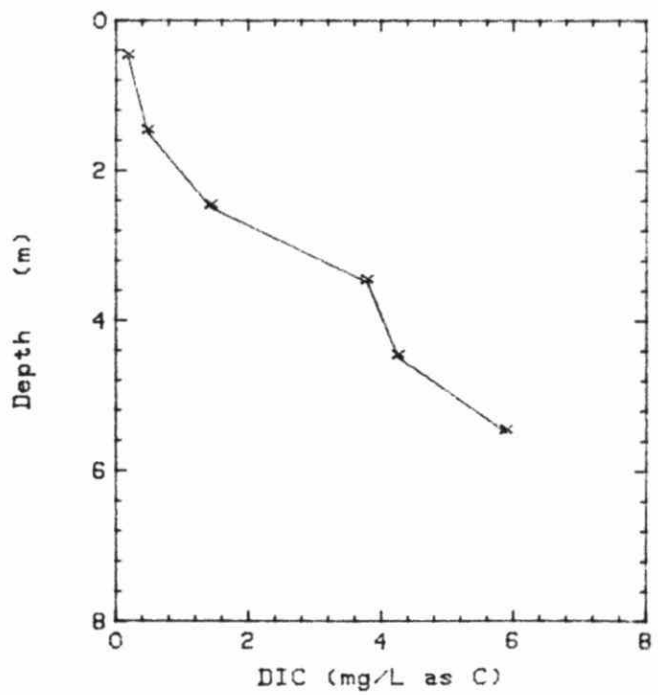

Depth (m)
0
2
4
6
8
0
2
4
6
8
DIC (mg/L as C)

# MOOT 84.08.02

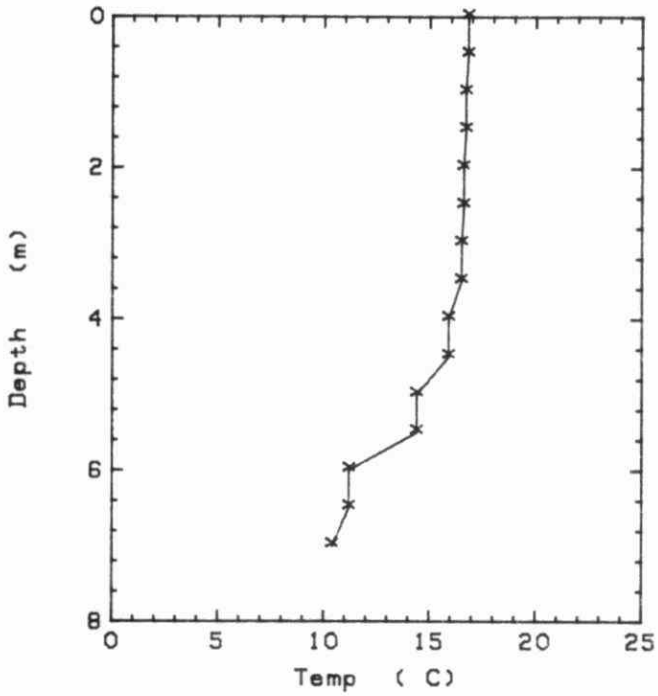

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

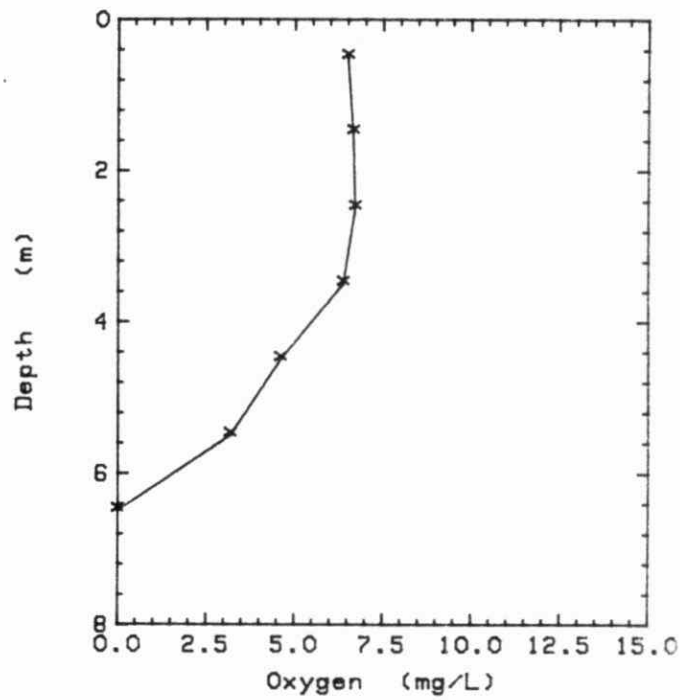

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
Oxygen (mg/L)

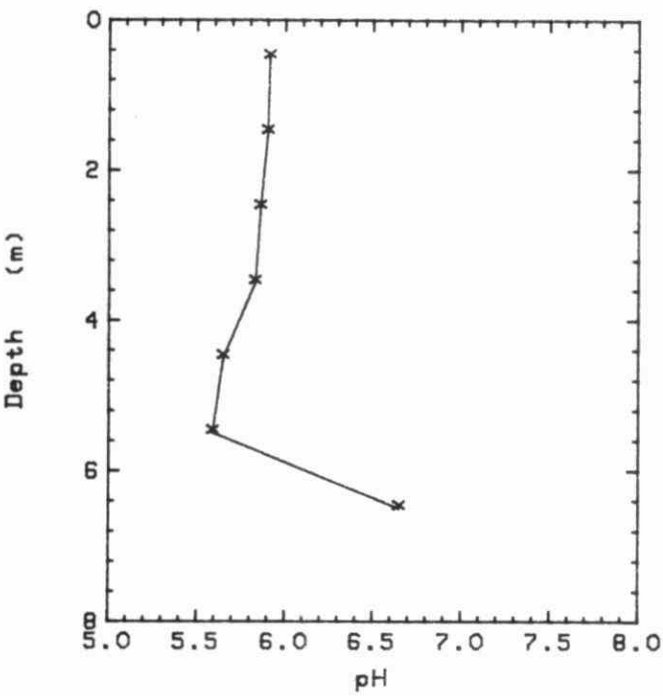

Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH

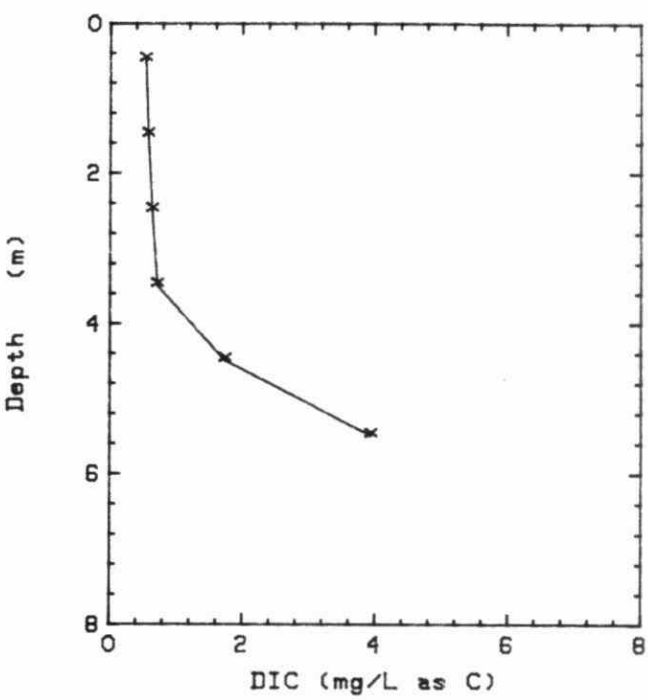

Depth (m)
0
2
4
6
8
0
2
4
6
8
DIC (mg/L as C)

# MOOT 84.09.25

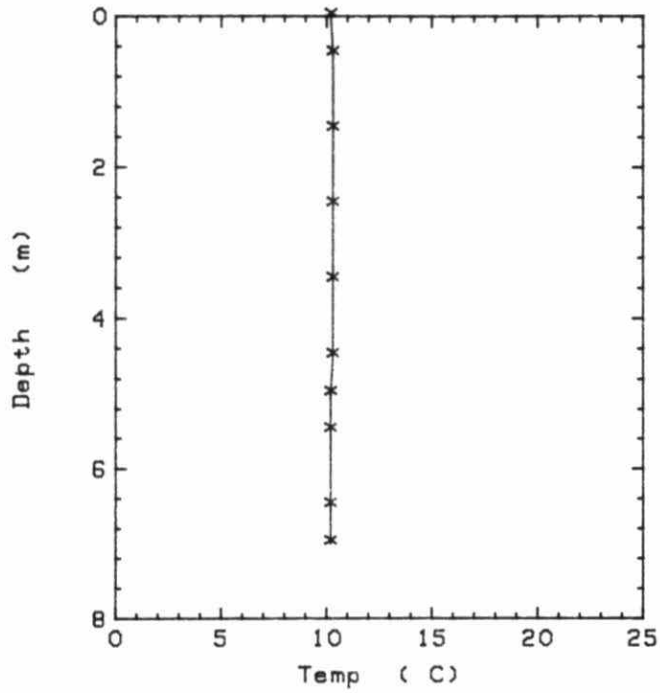

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

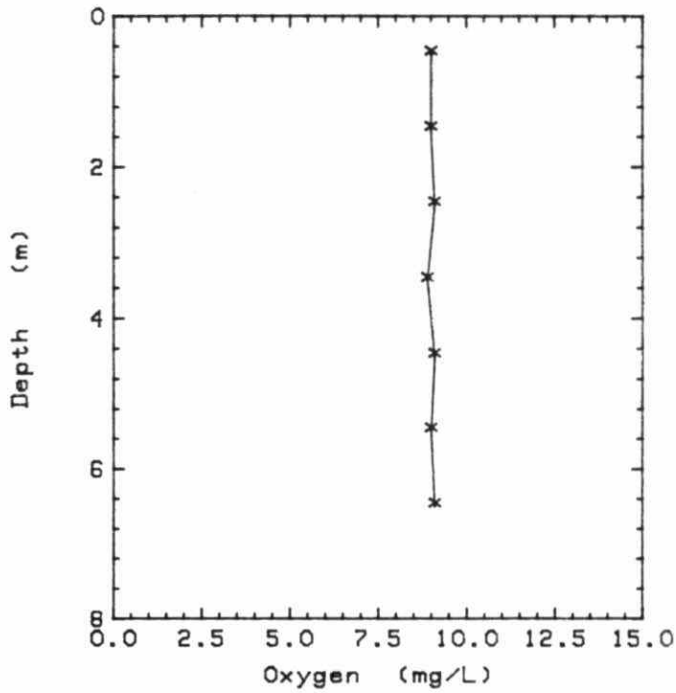

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

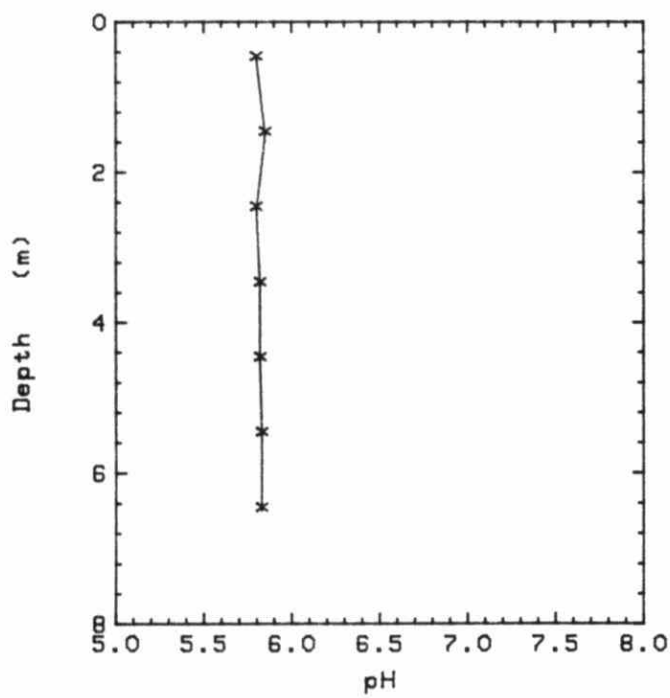

Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH

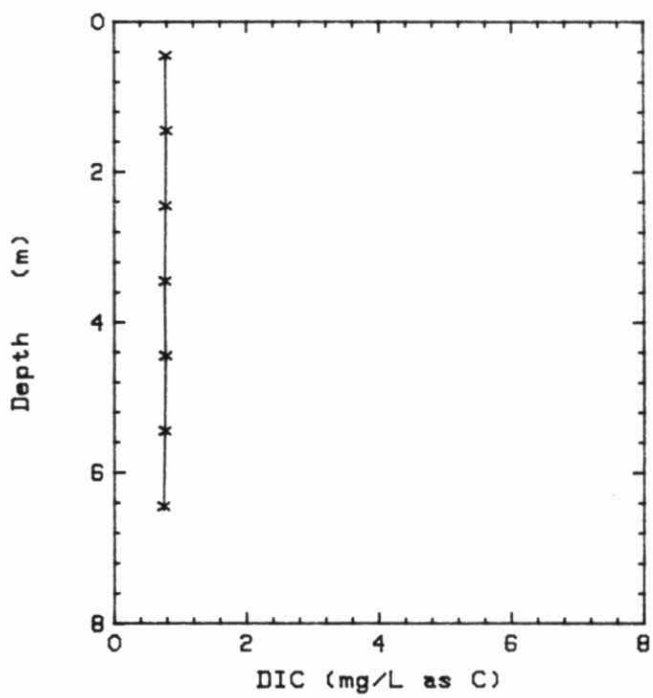

Depth (m)
0
2
4
6
8
0
2
4
6
8
DIC (mg/L as C)

# MOOT 84.10.30

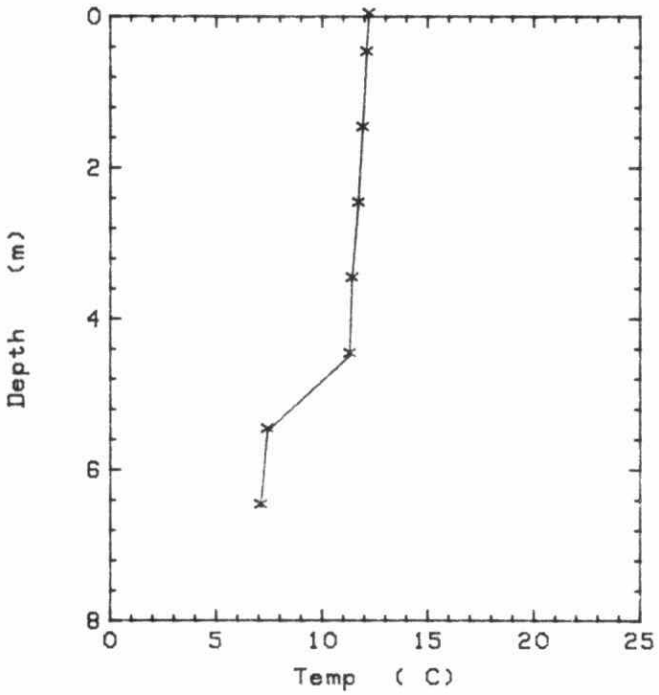

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

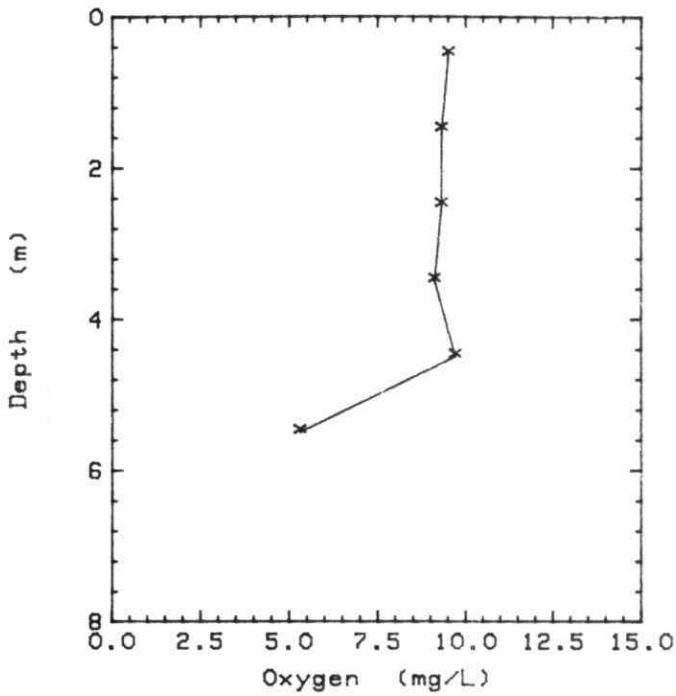

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

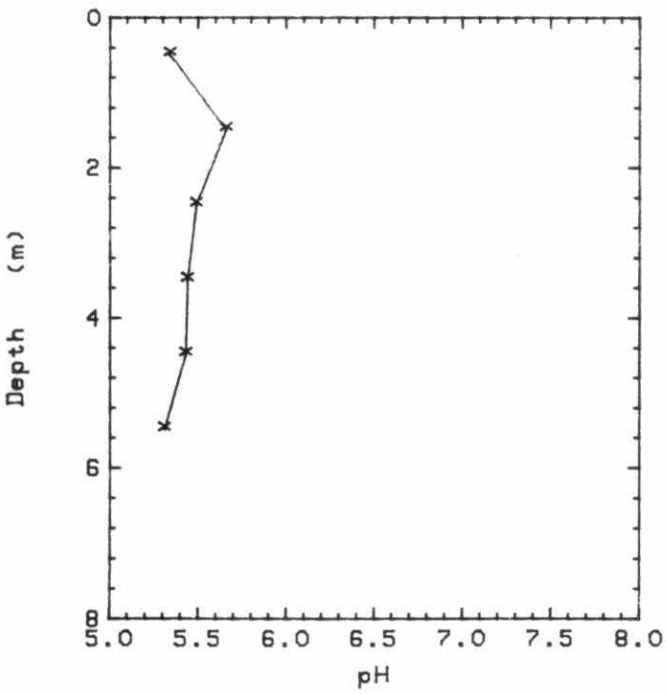

Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH

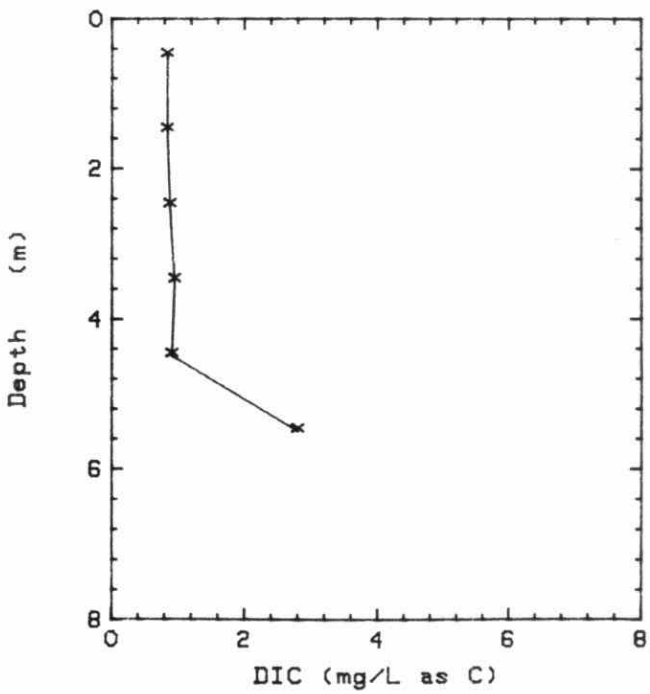

Depth (m)
0
2
4
6
8
0
2
4
6
8
DIC (mg/L as C)

# MOOT 85.05.07

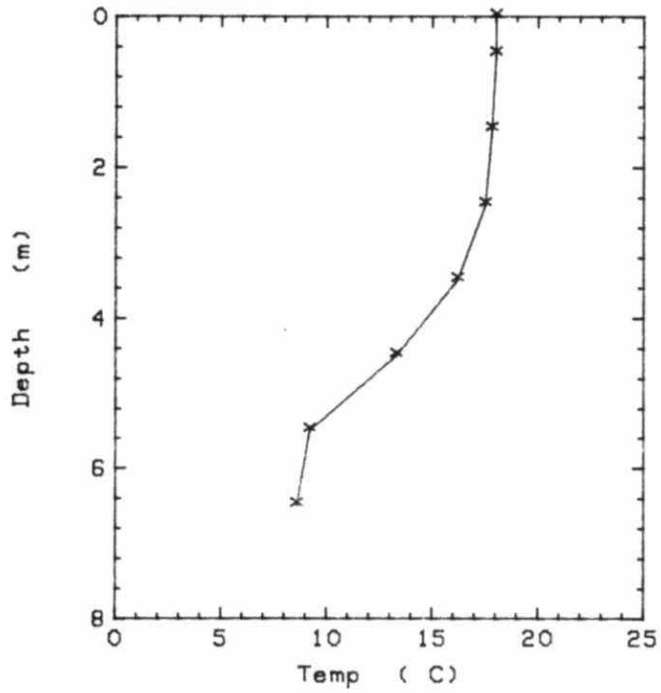

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

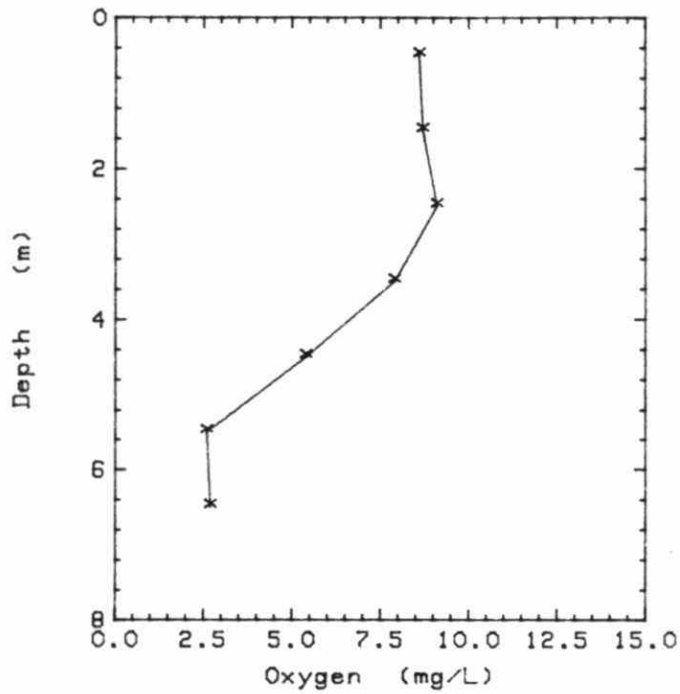

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

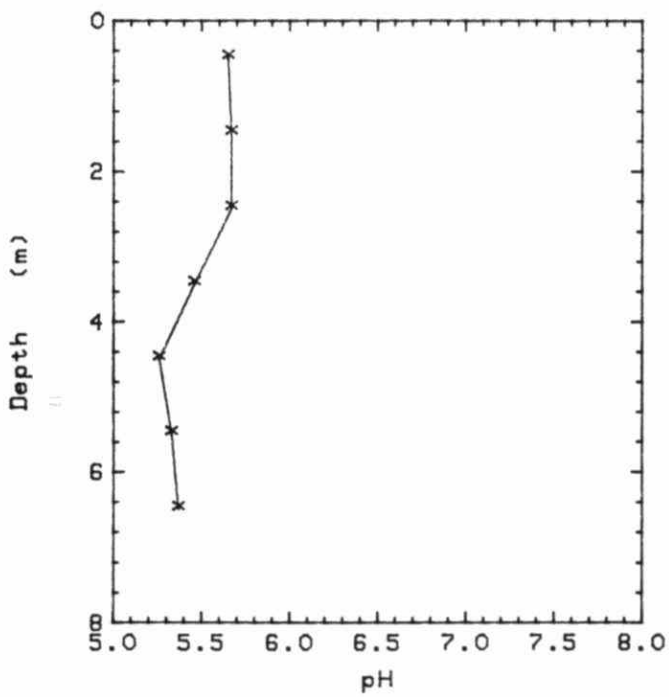

Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH

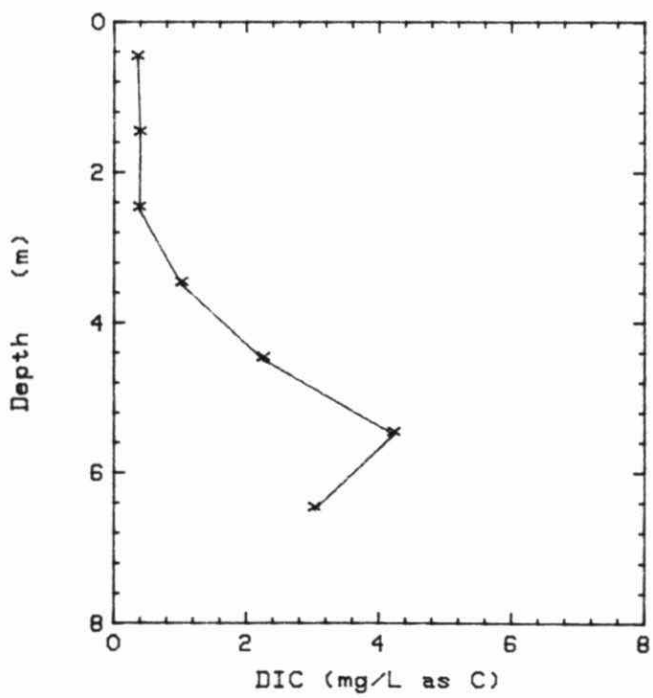

Depth (m)
0
2
4
6
8
0
2
4
6
8
DIC (mg/L as C)

# MOOT 85.06.06

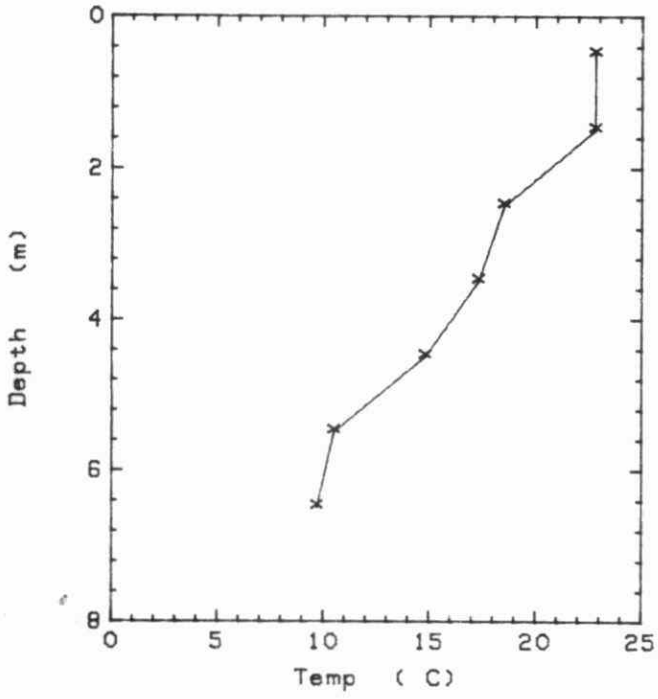

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

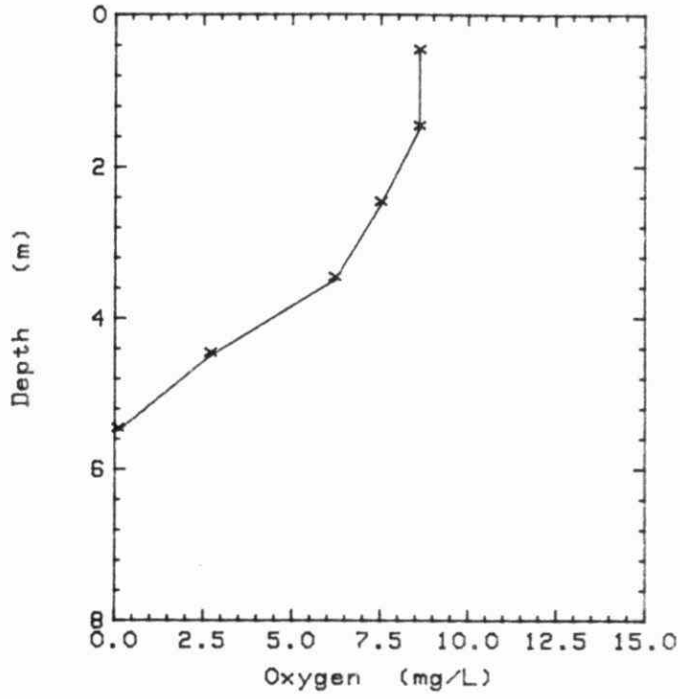

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

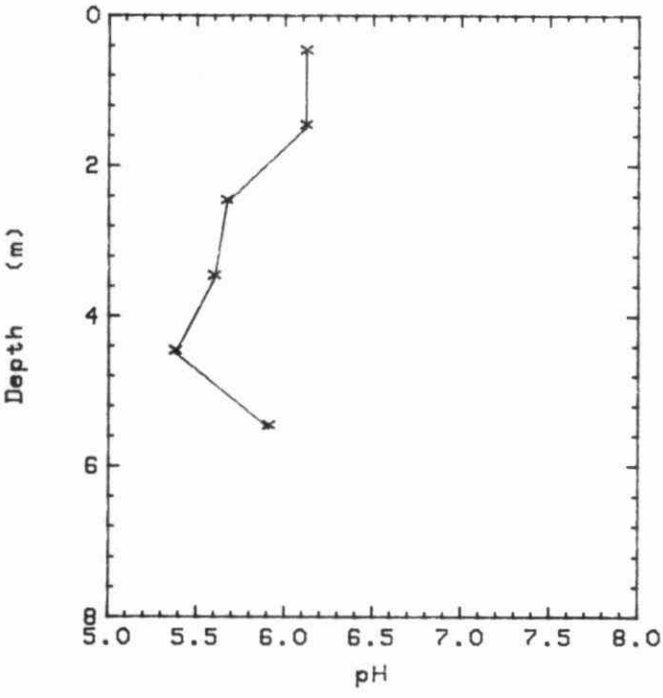

Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH

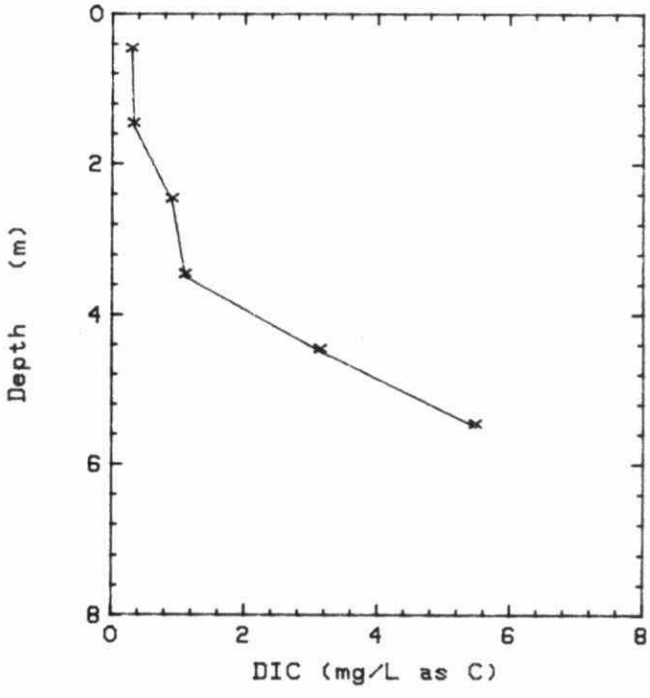

Depth (m)
0
2
4
6
8
0
2
4
6
8
DIC (mg/L as C)

# MOOT 85.07.03

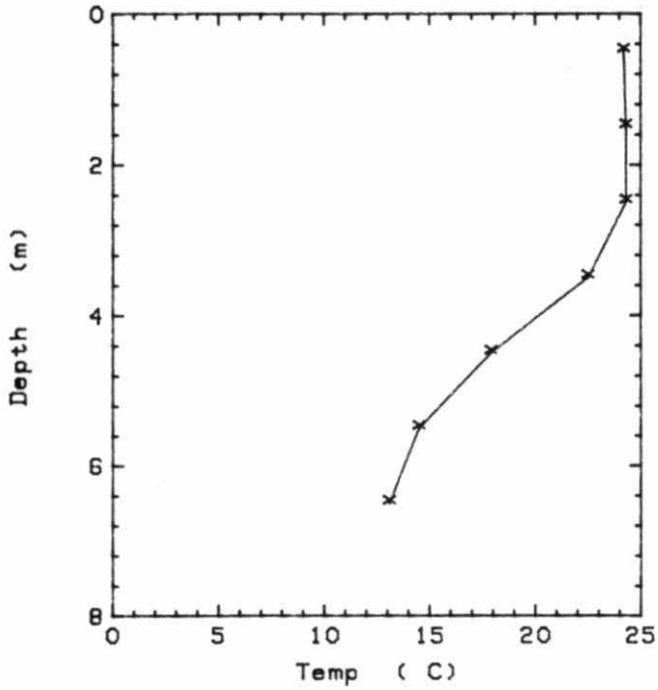

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

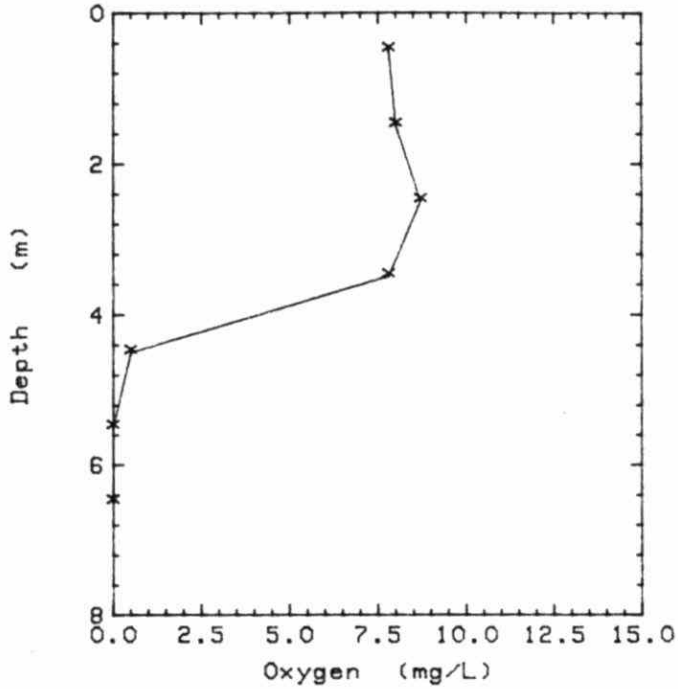

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

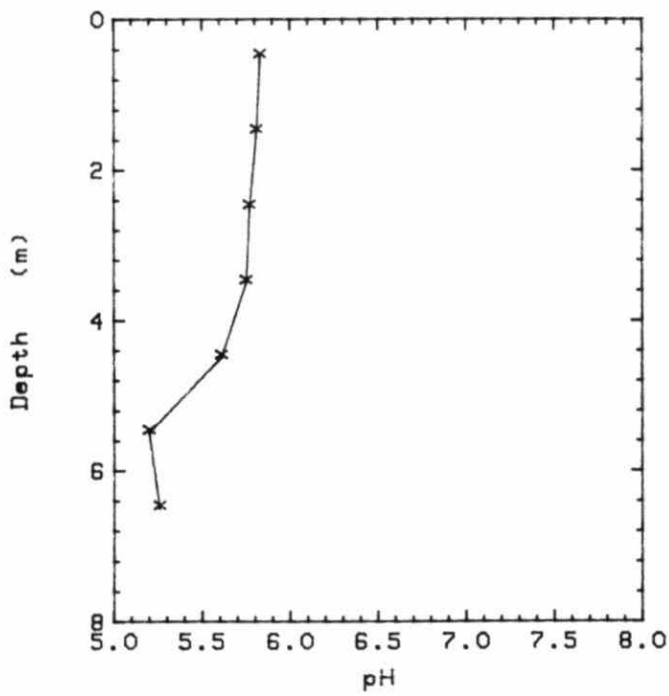

Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH

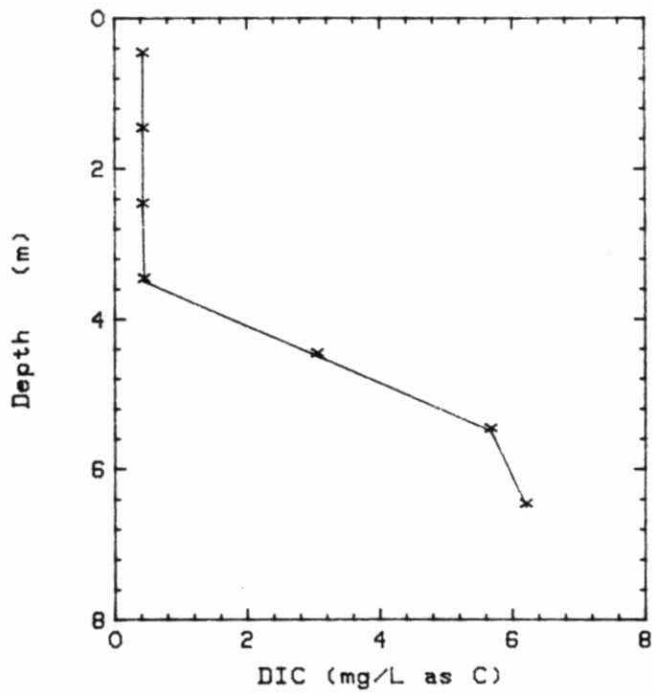

Depth (m)
0
2
4
6
8
0
2
4
6
8
DIC (mg/L as C)

# MOOT 85.08.01

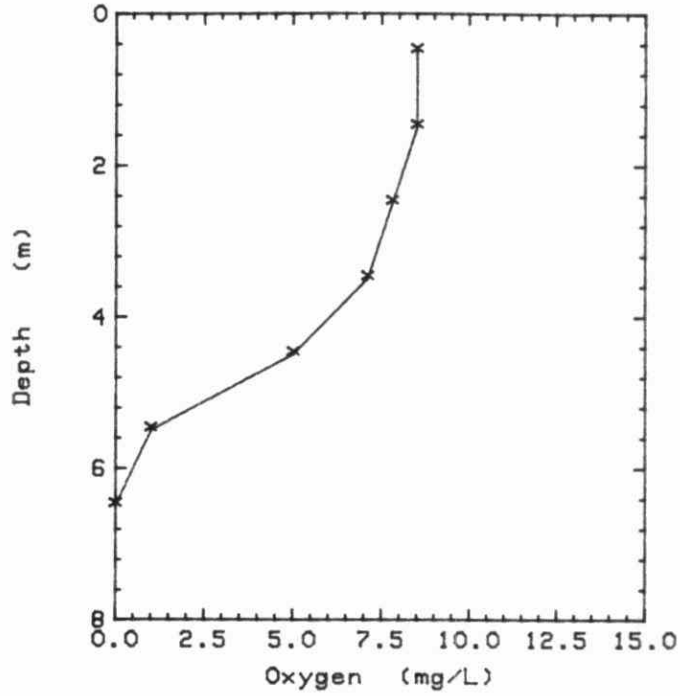

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

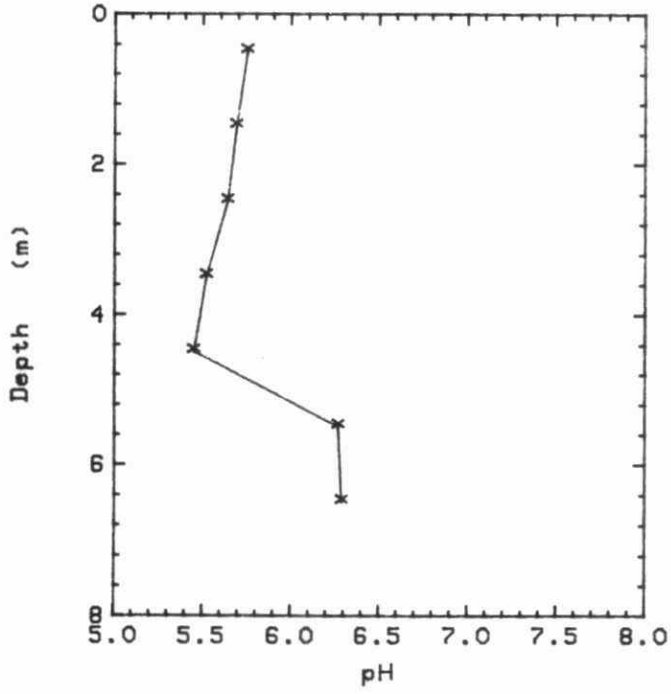

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

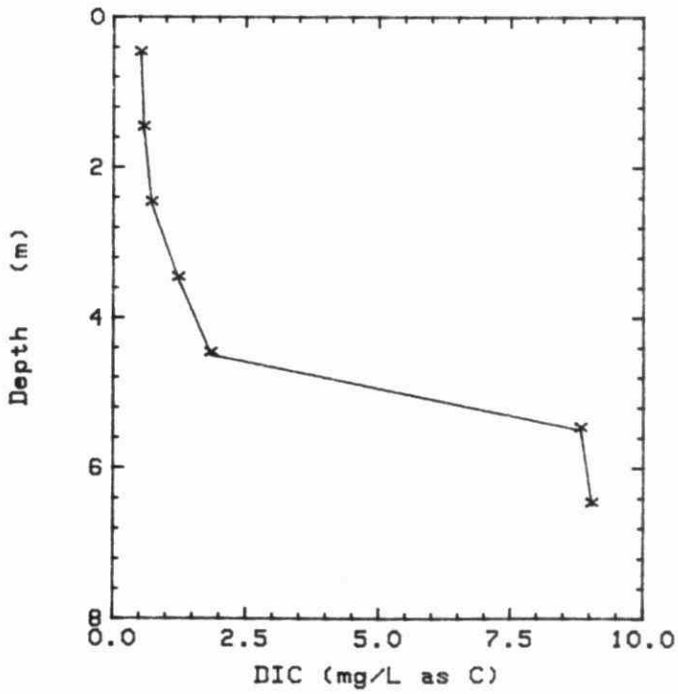

Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH


Depth (m)
0
2
4
6
8
0
2
4
6
8
DIC (mg/L as C)

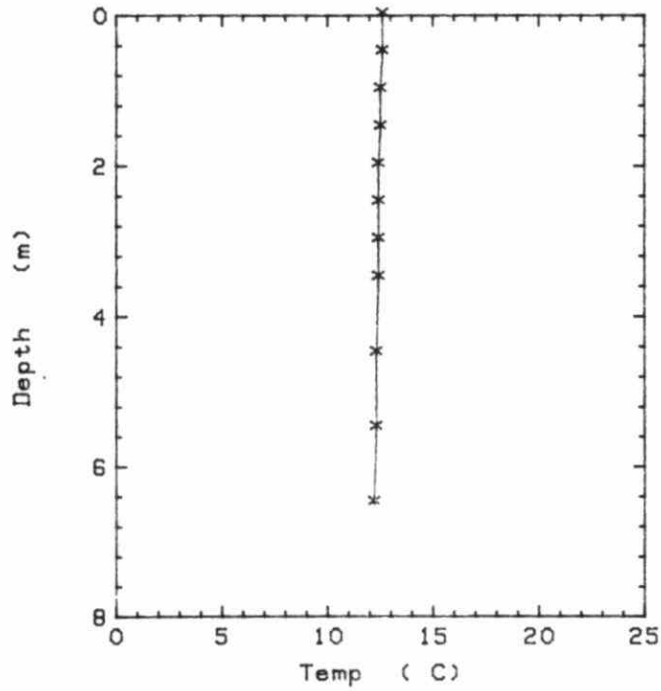
# MOOT 85.09.04

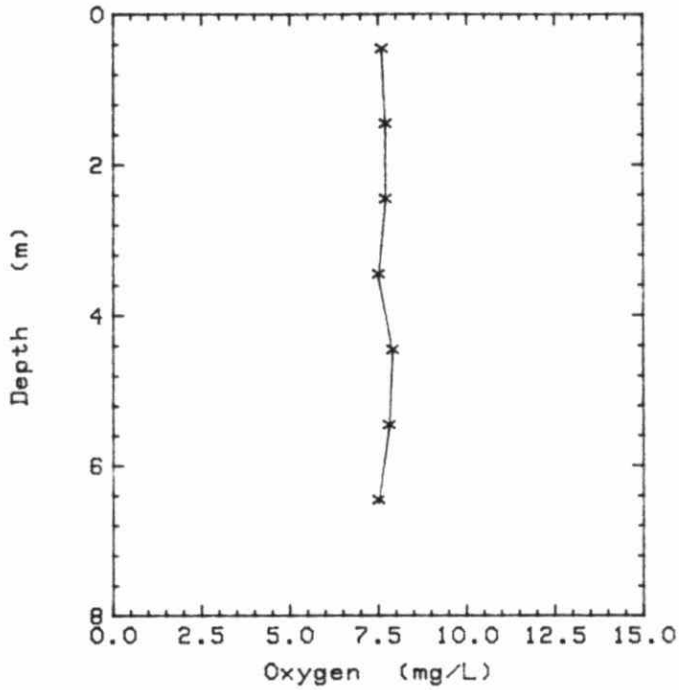

Depth (m)
0
2
4
6
8
0.0 2.5 5.0 7.5 10.0 12.5 15.0
Oxygen (mg/L)

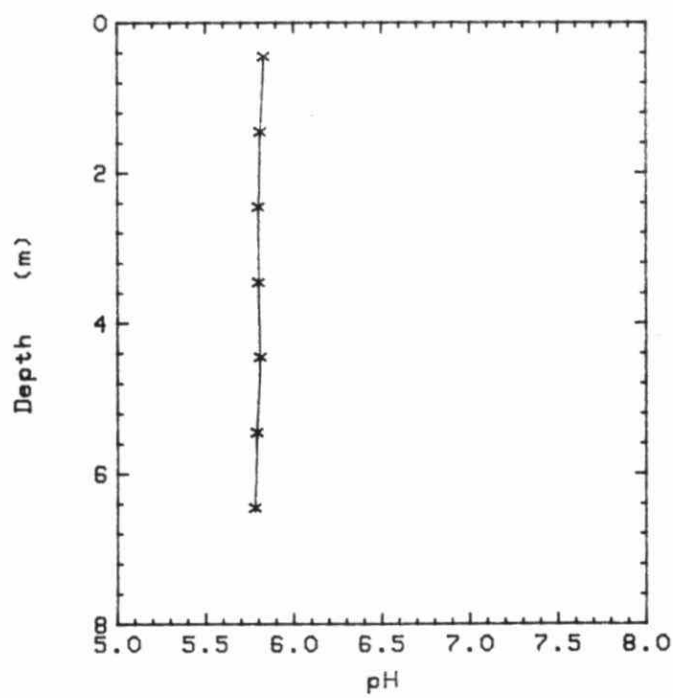

Depth (m)
0
2
4
6
8
5.0 5.5 6.0 6.5 7.0 7.5 8.0
pH

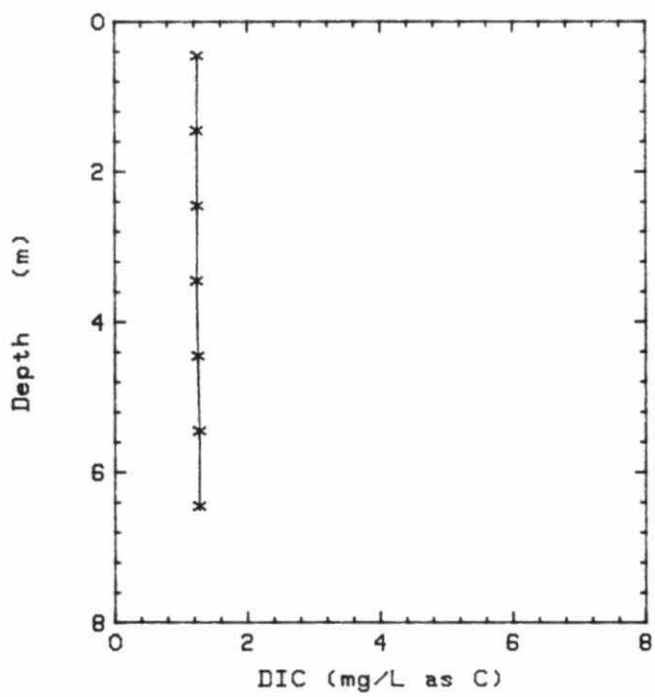

Depth (m)
0
2
4
6
8
0.0 2.5 5.0 7.5 10.0
DIC (mg/L as C)

# MOOT 85.10.10

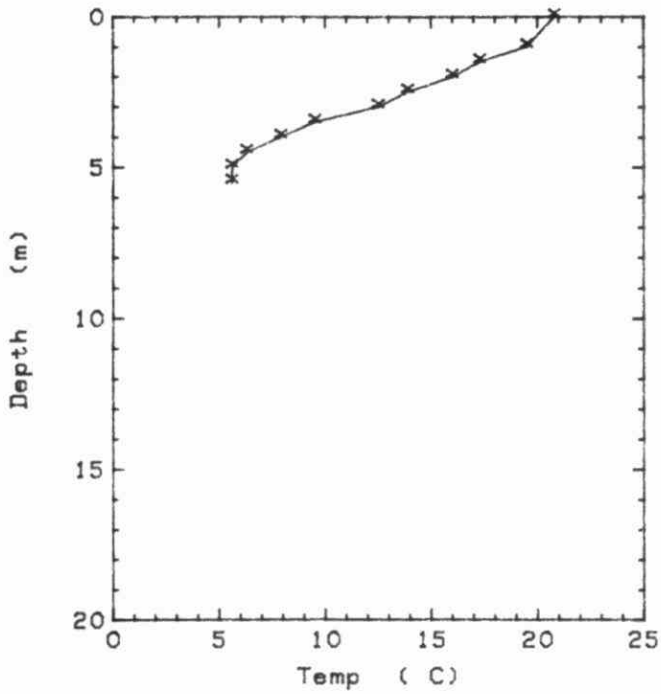

Depth (m)
0
2
4
6
8
0
5
10
15
20
25
Temp ( C)

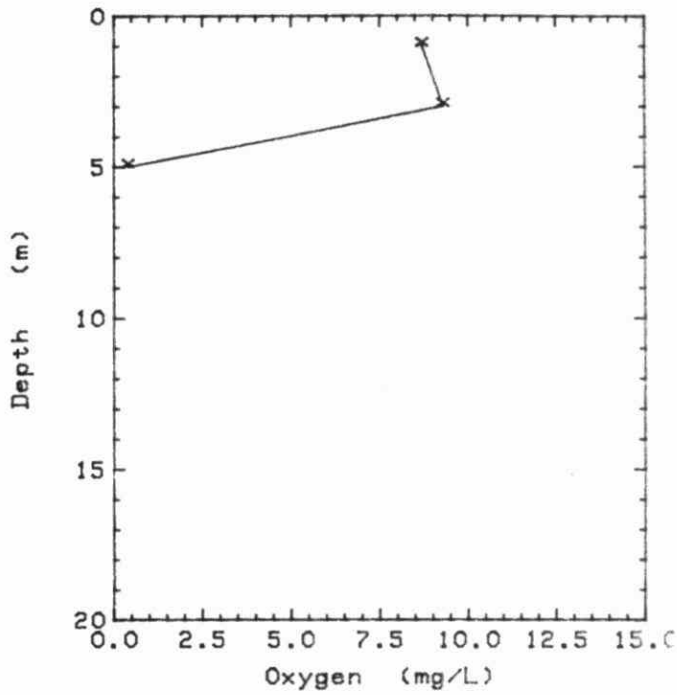

Depth (m)
0
2
4
6
8
0.0
2.5
5.0
7.5
10.0
12.5
15.0
Oxygen (mg/L)

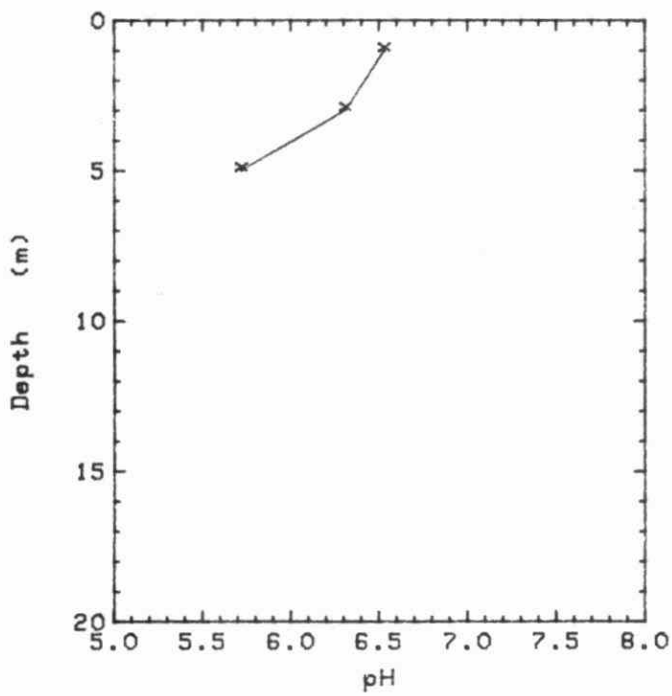

Depth (m)
0
2
4
6
8
5.0
5.5
6.0
6.5
7.0
7.5
8.0
pH


Depth (m)
0
2
4
6
8
0
2
4
6
8
DIC (mg/L as C)

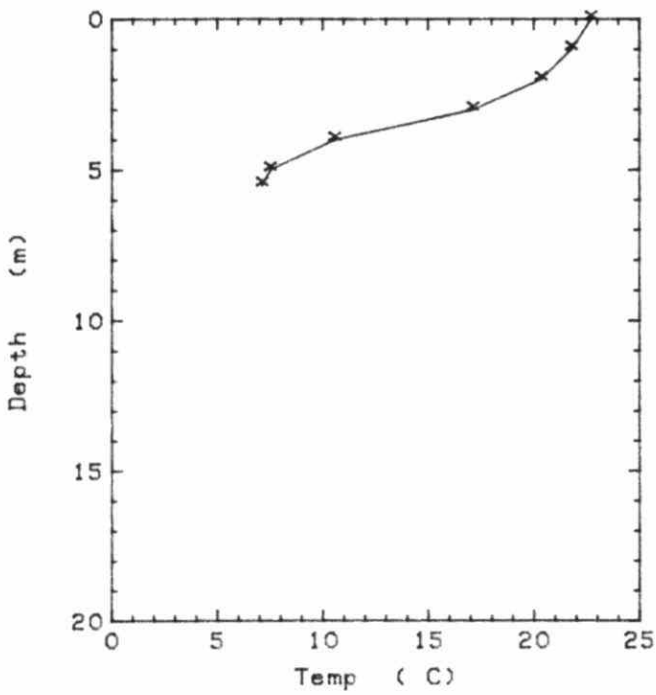
# POKER 79.06.04

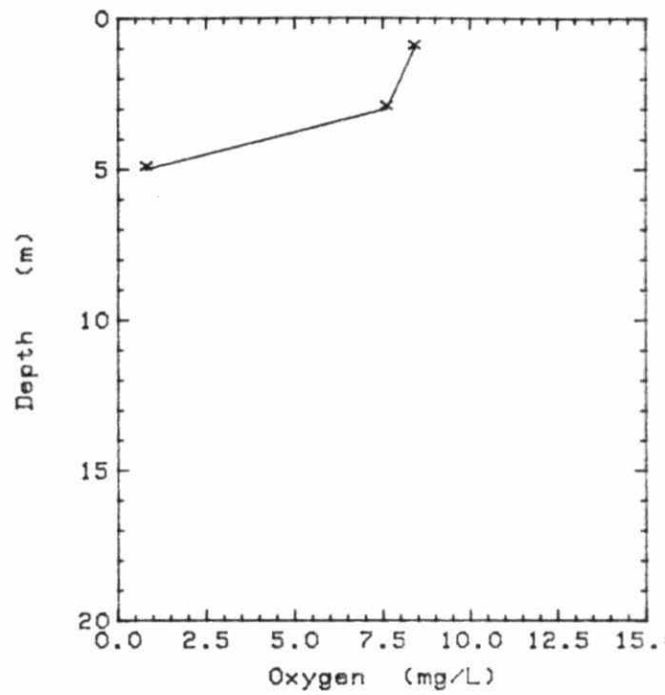


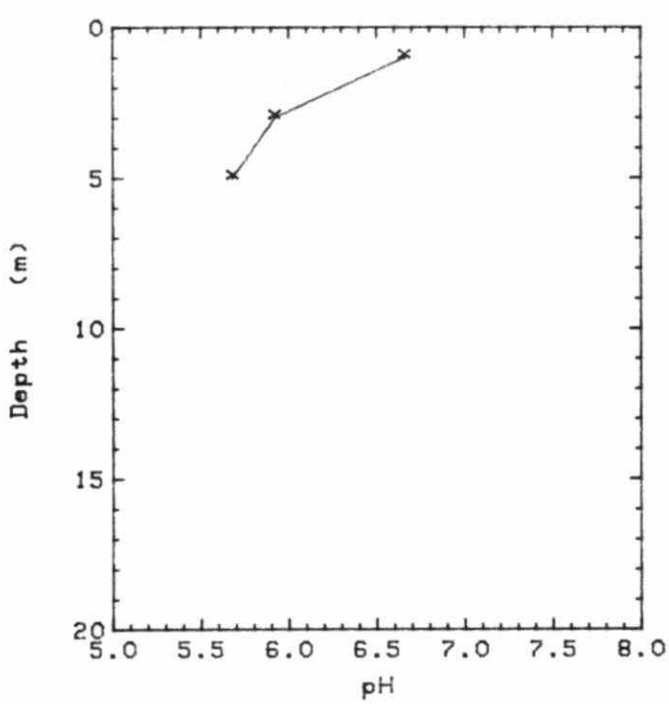



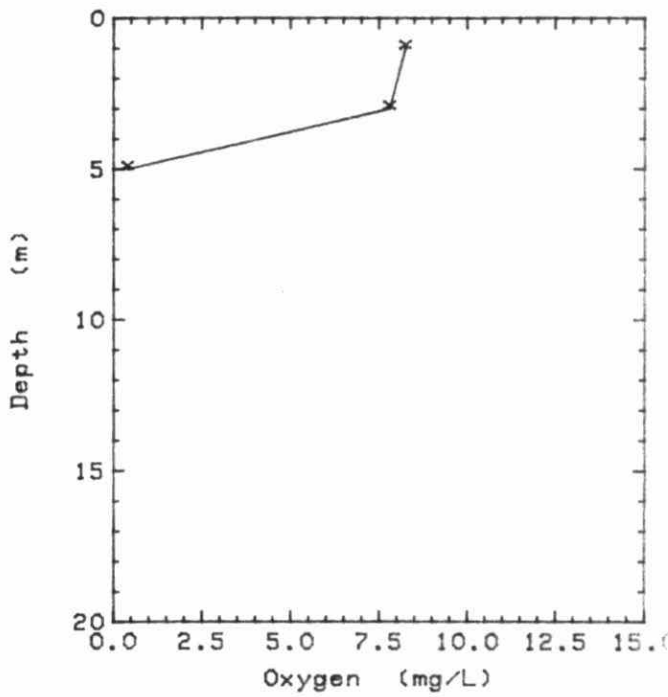
# POKER 79.07.09

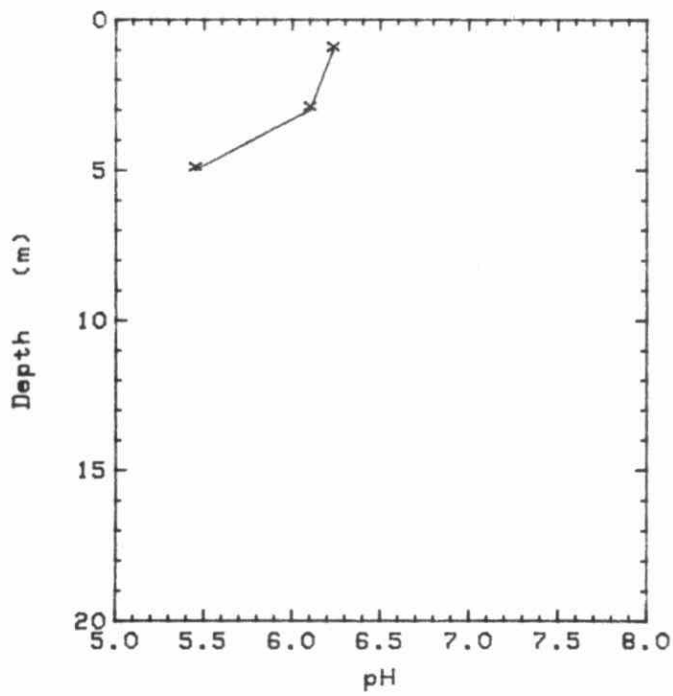


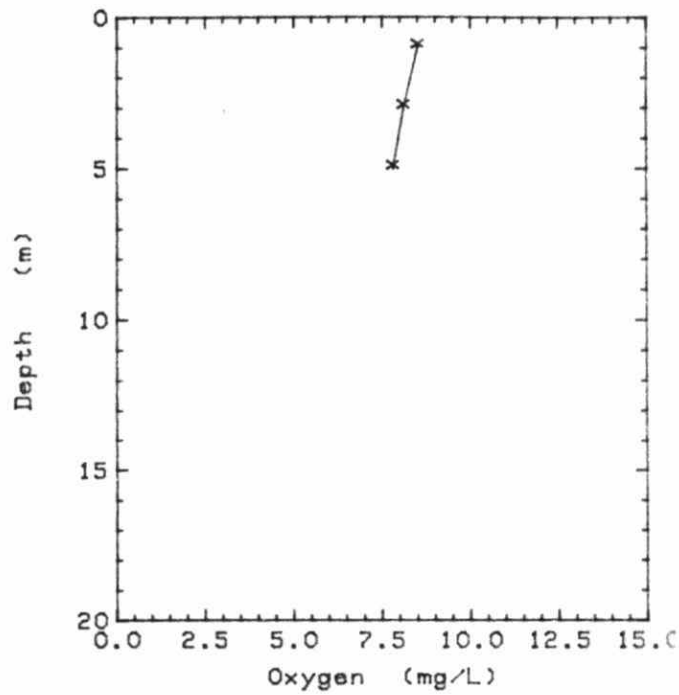



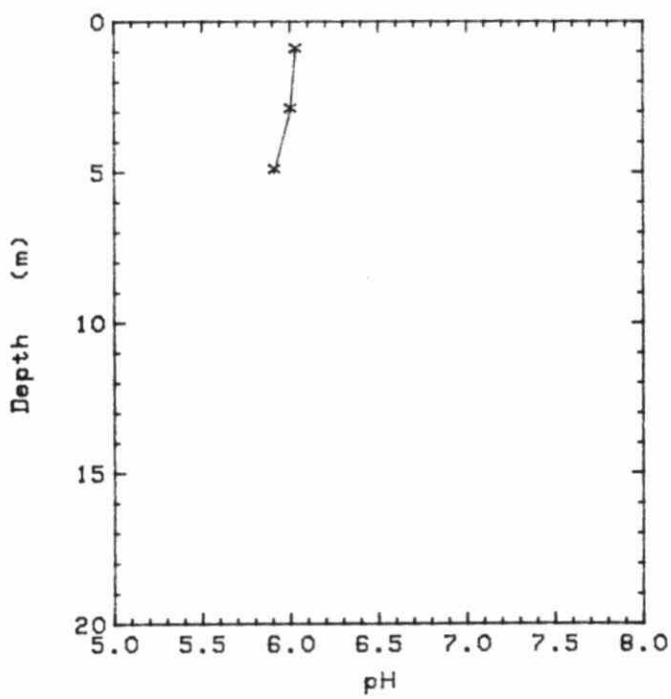
# POKER 79.08.20



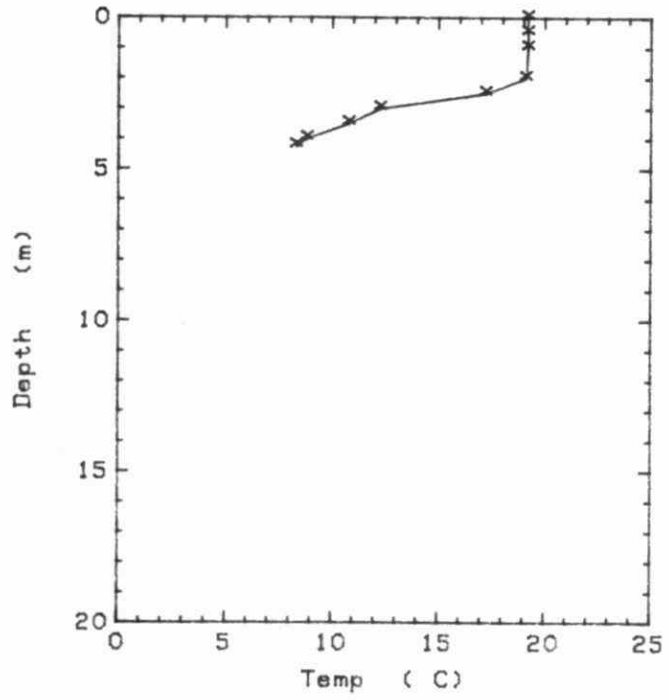



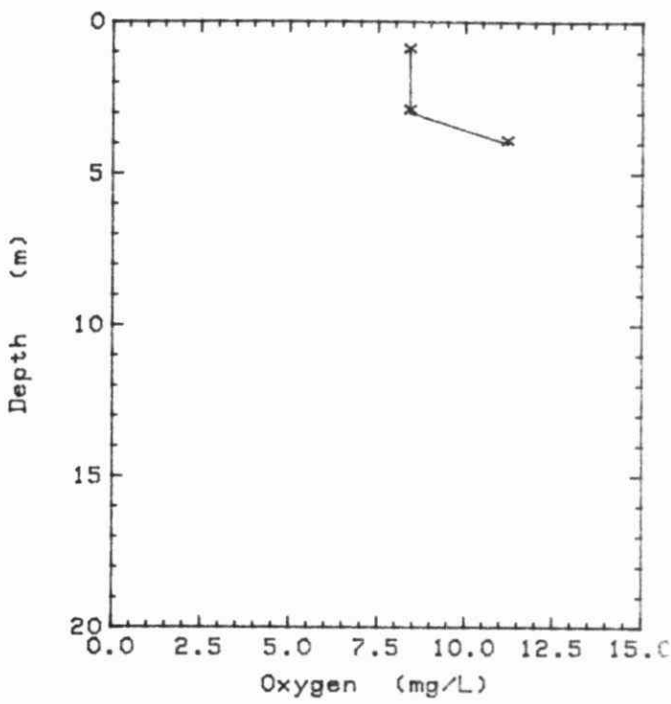
# POKER 79.09.27

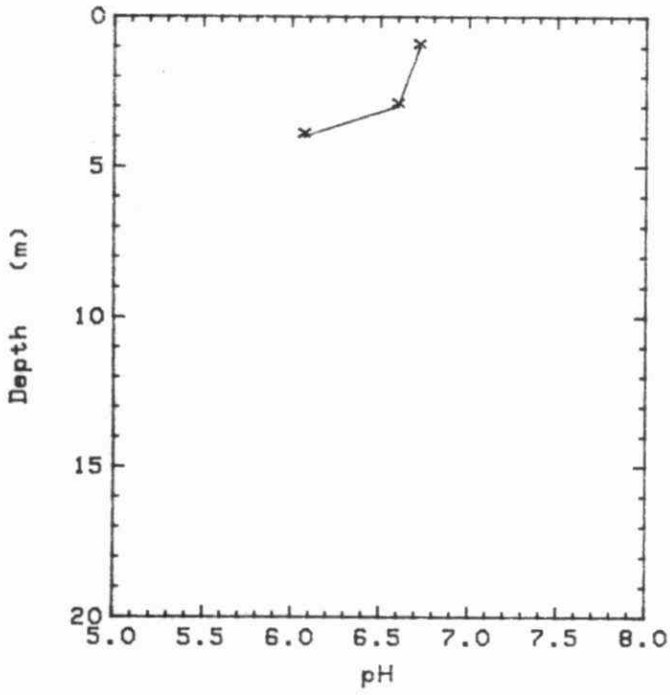


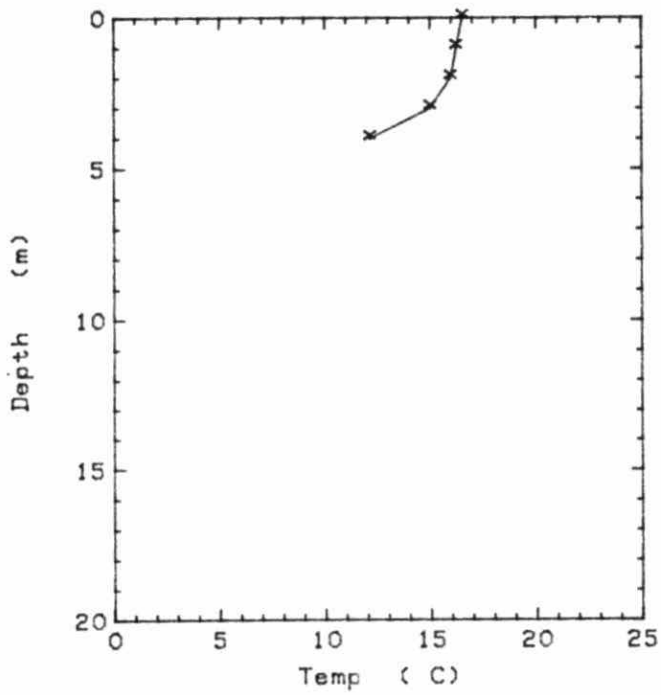
# POKER 80.05.26

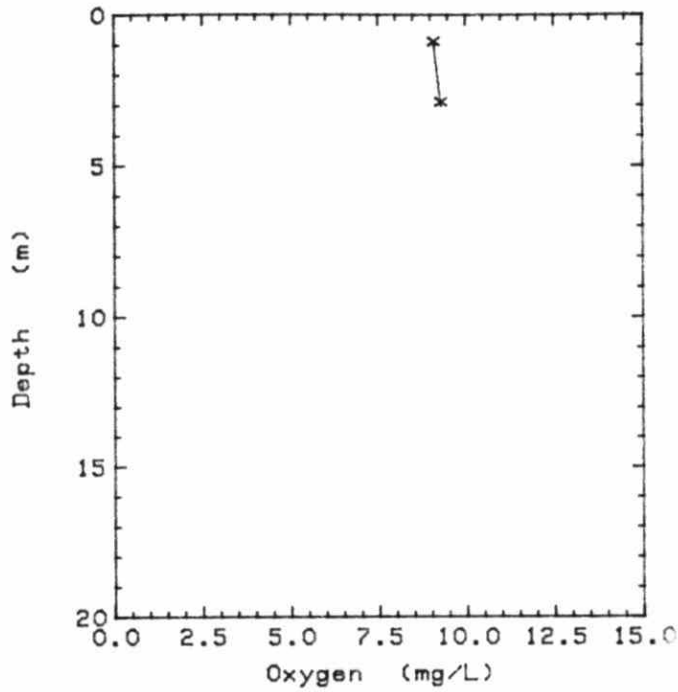


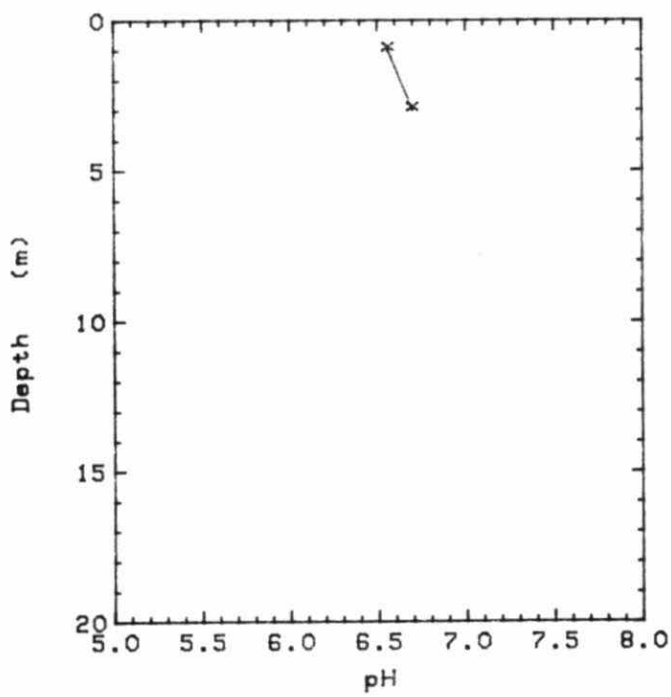



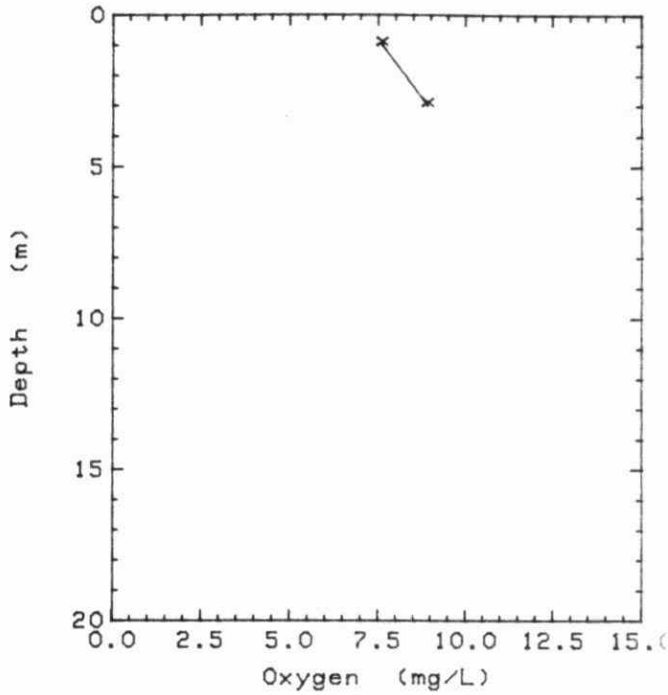
# POKER 80.06.17

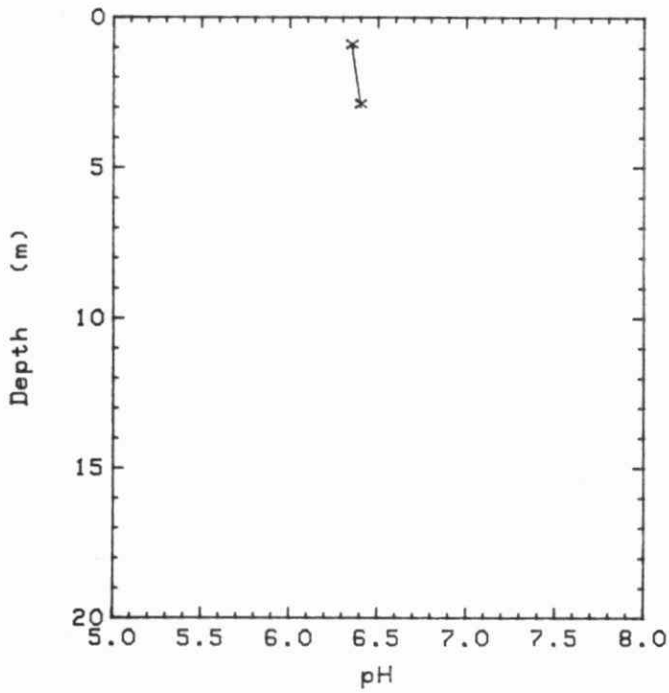


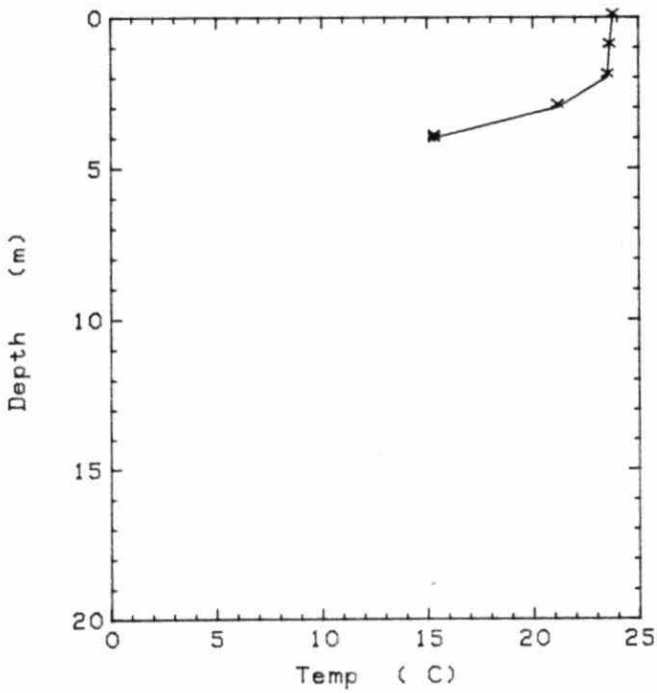



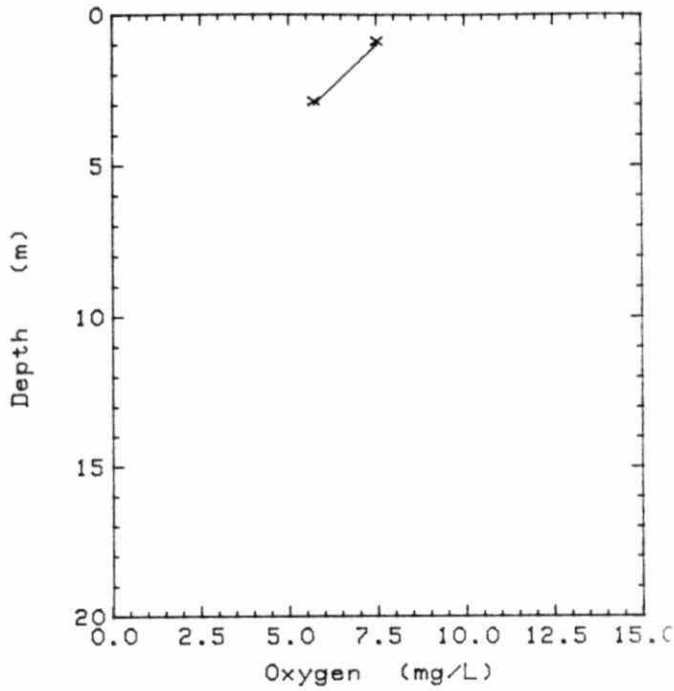
# POKER 80.07.17

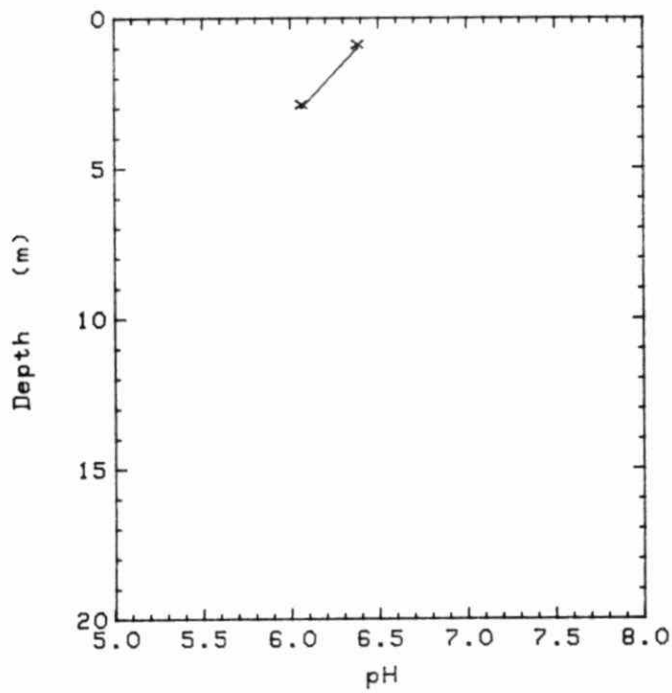


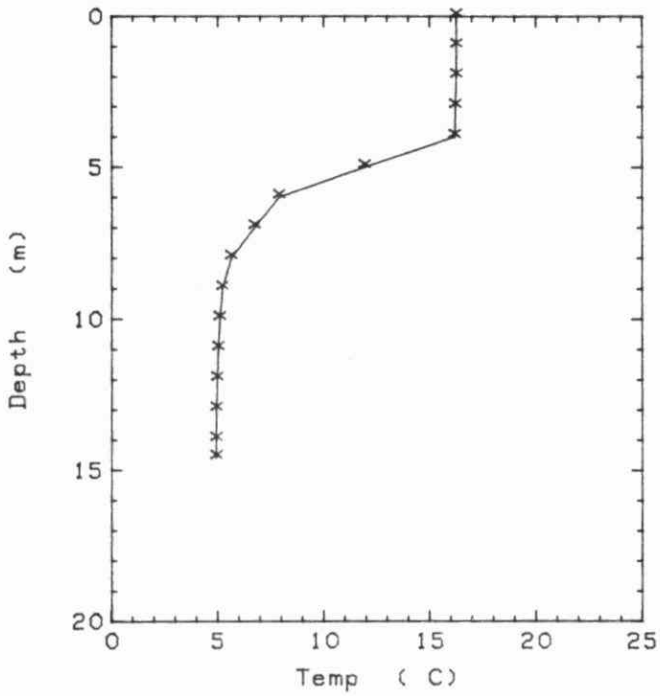
# POKER 80.08.14

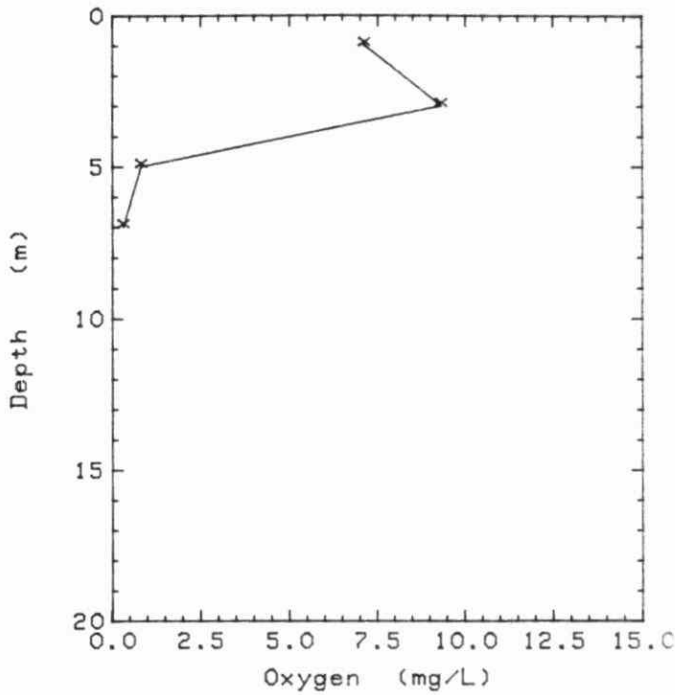


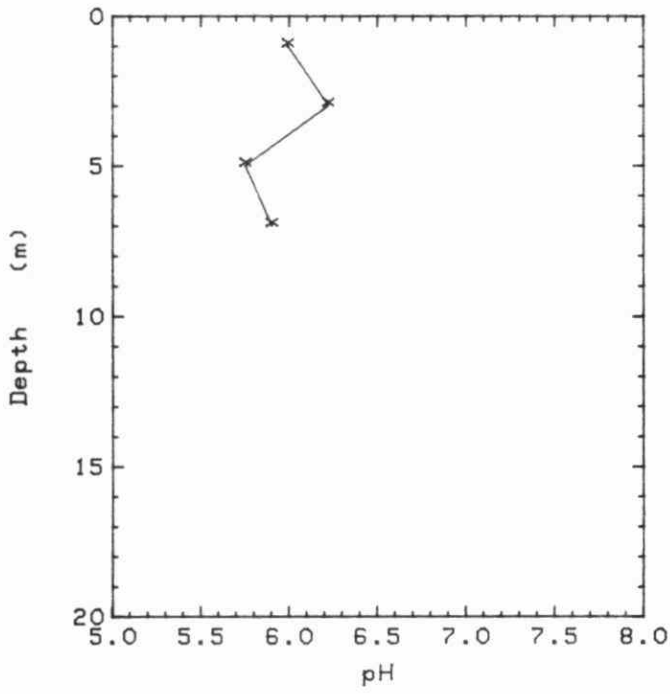



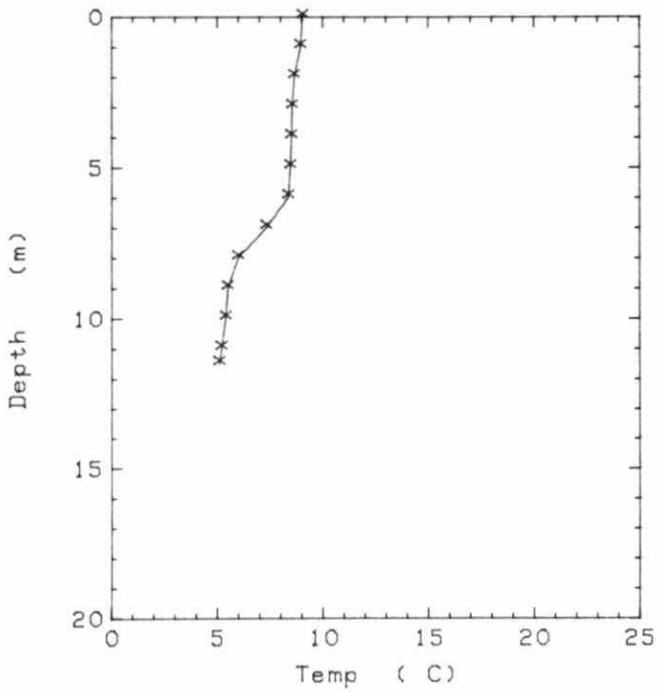
# POKER 80.09.22

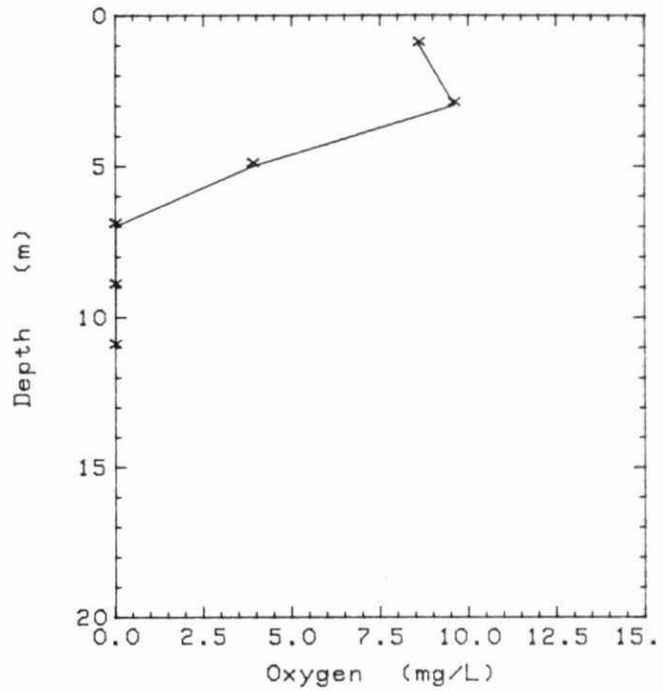


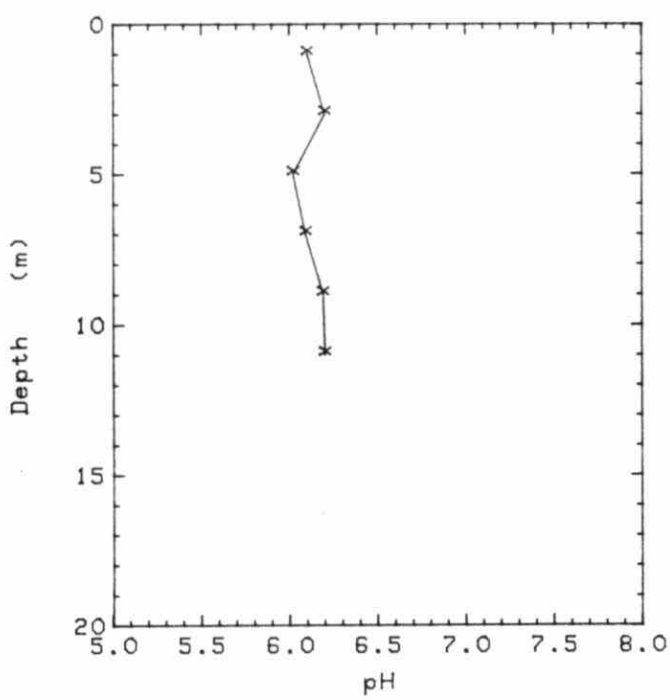



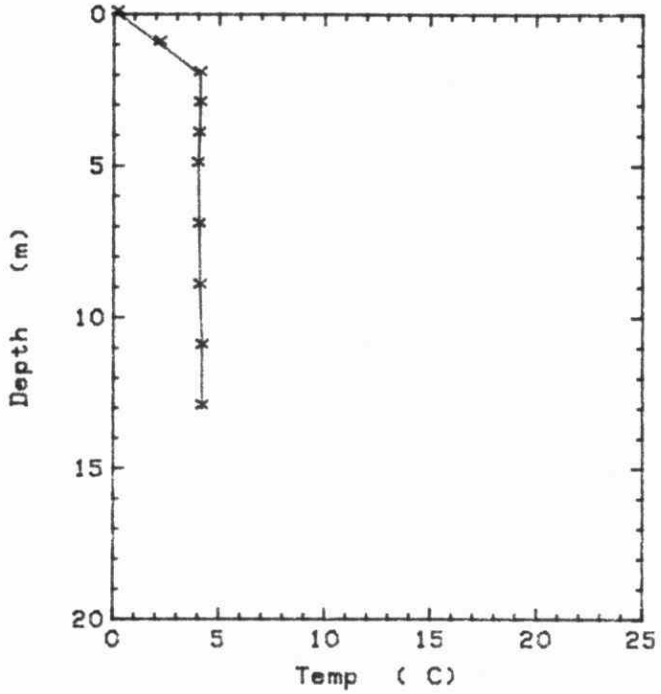
# POKER 80.10.23

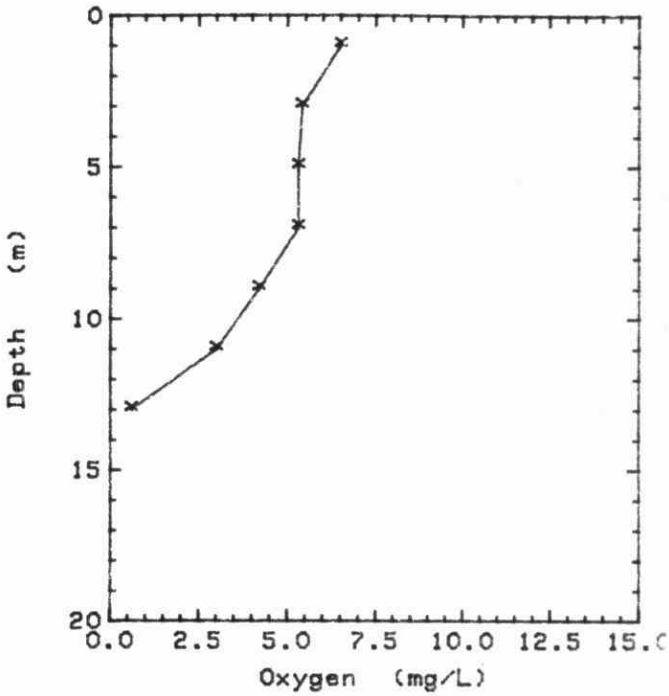


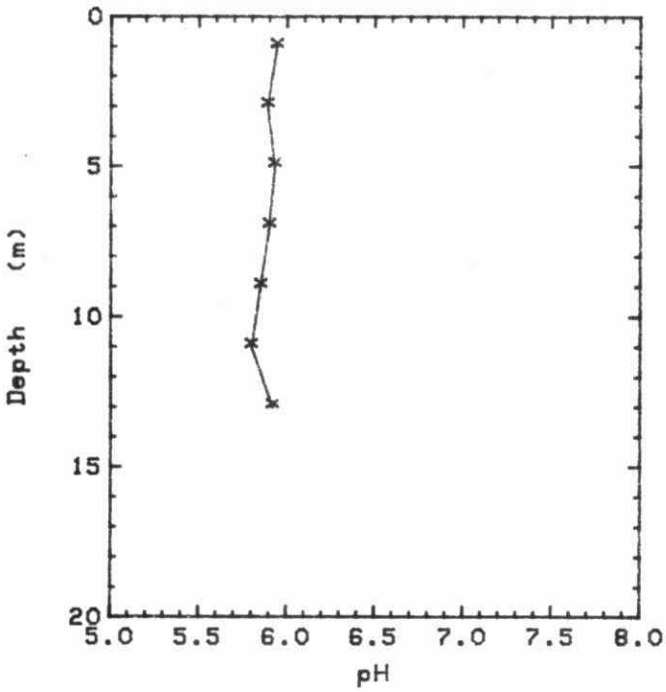



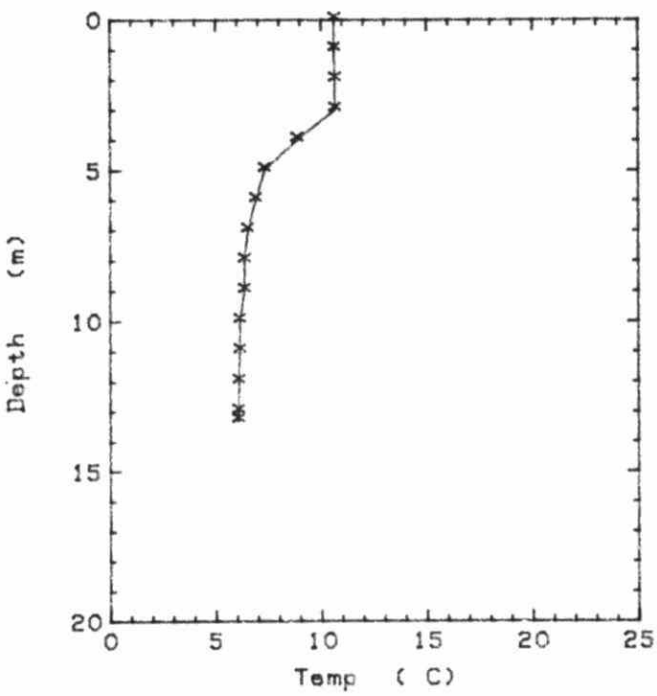
# POKER 81.01.21

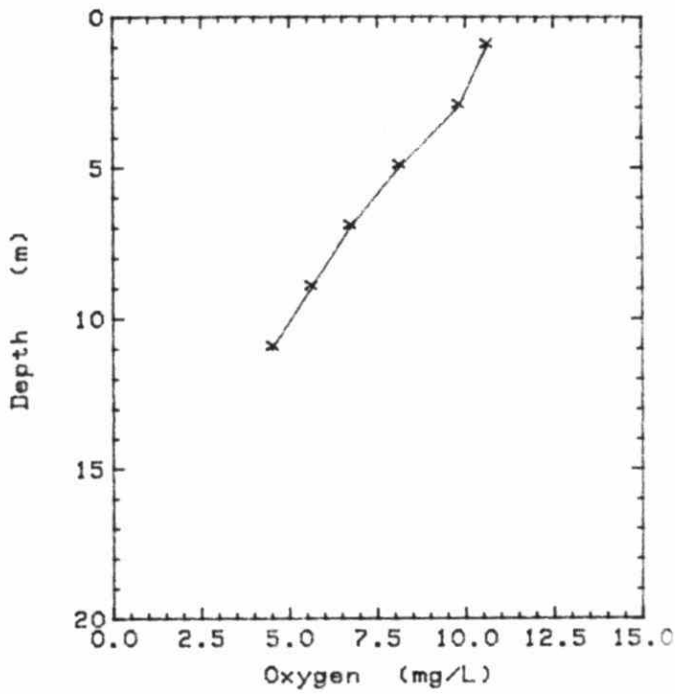


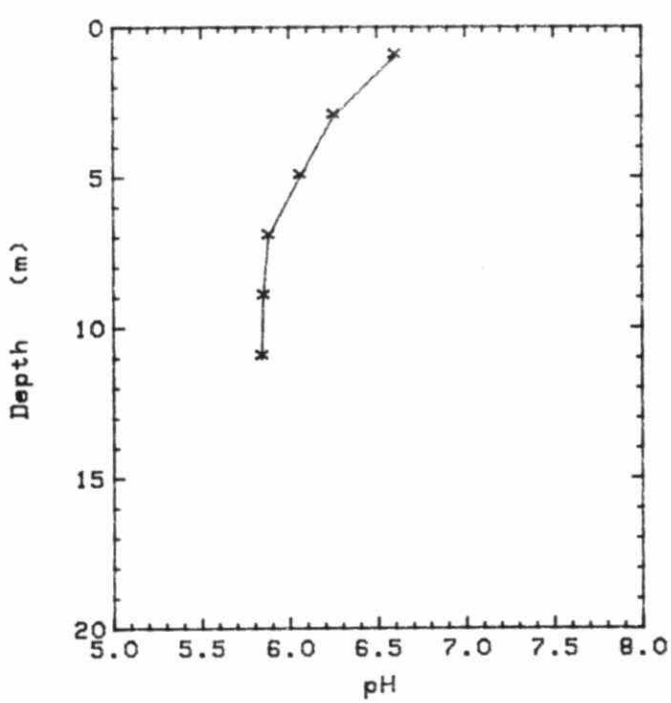



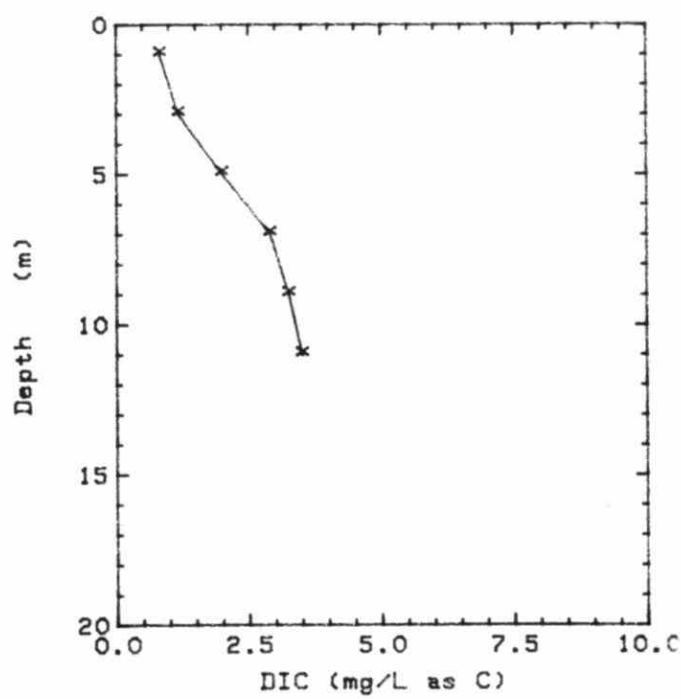



# POKER 81.05.13

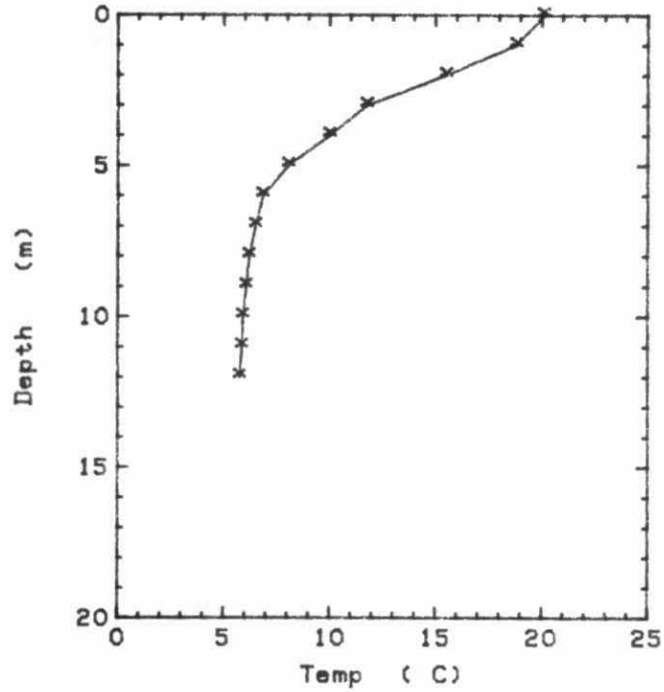


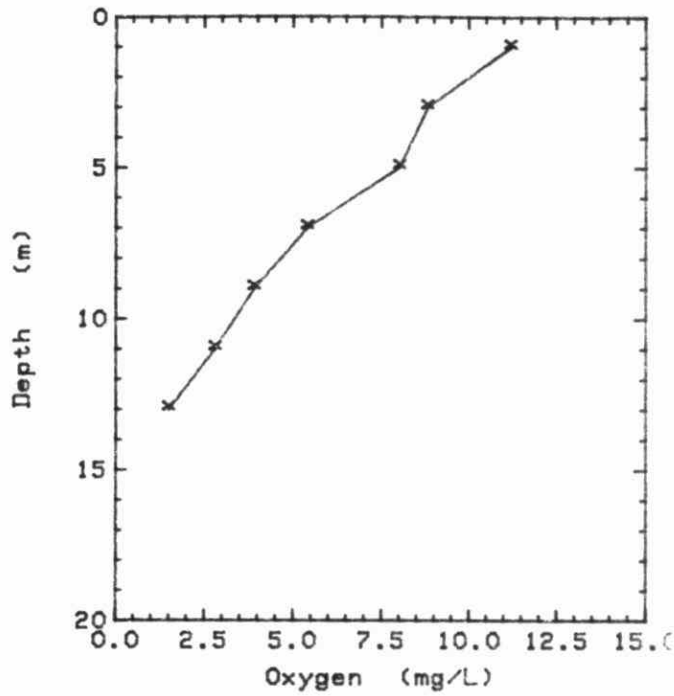



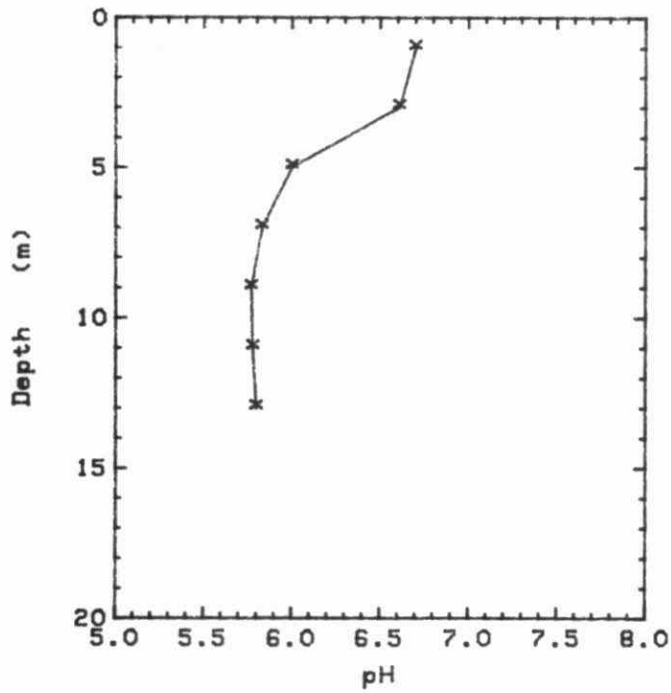



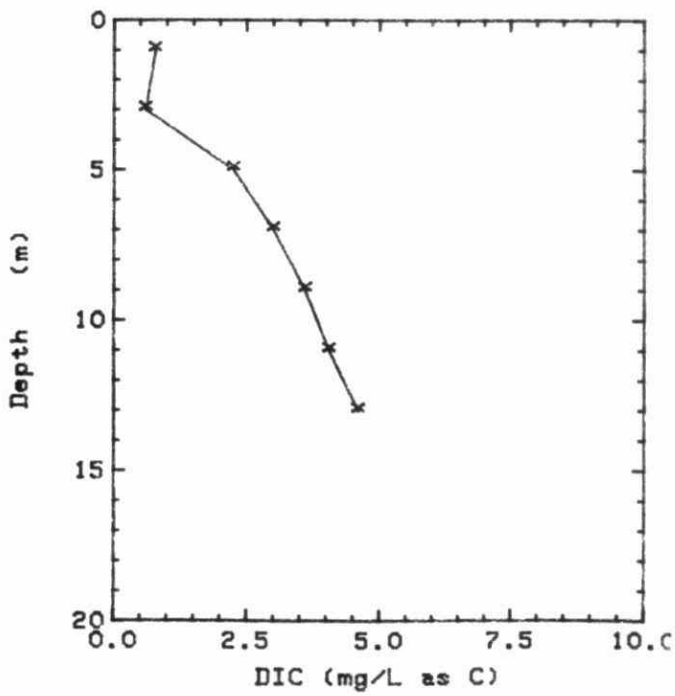



# POKER 81.05.28



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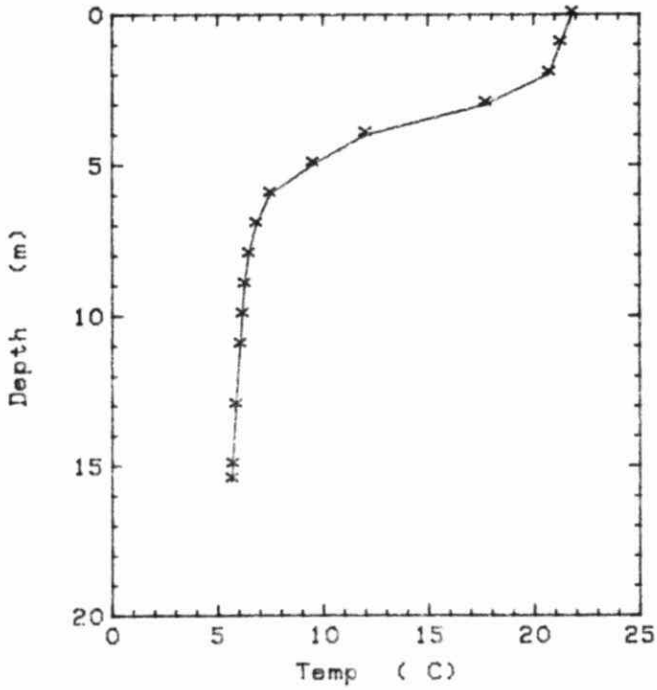


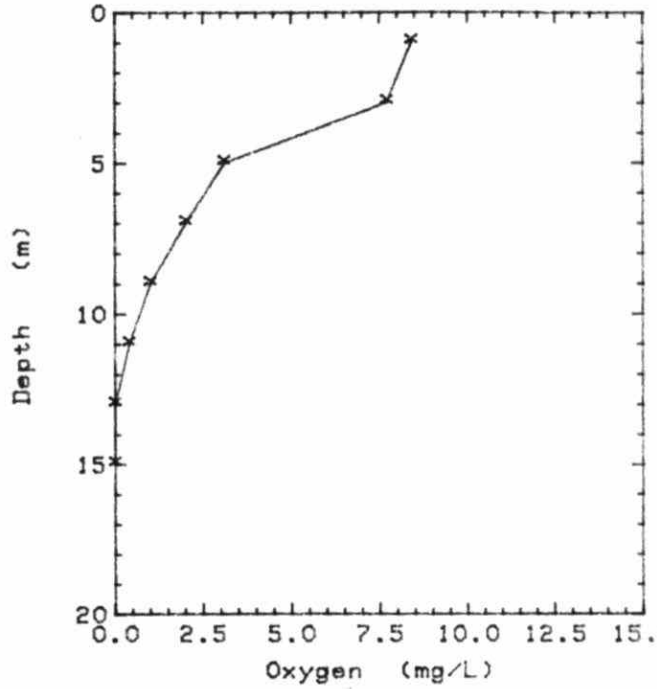


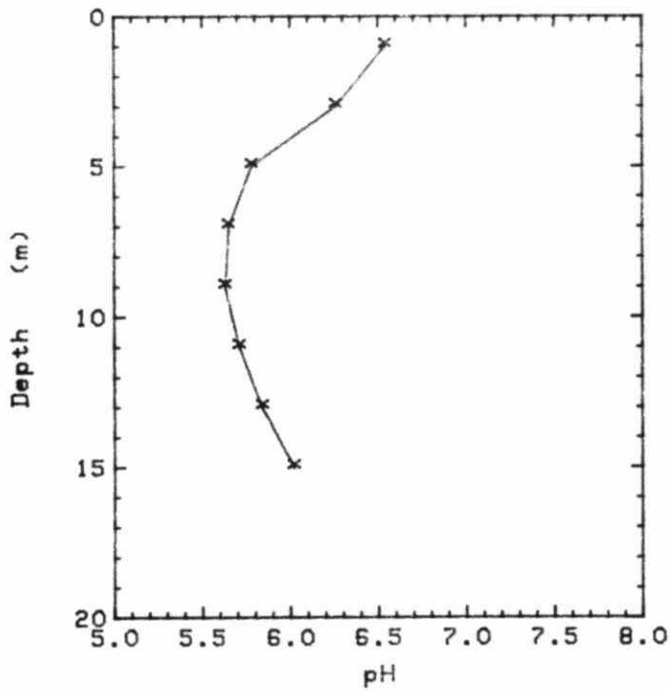


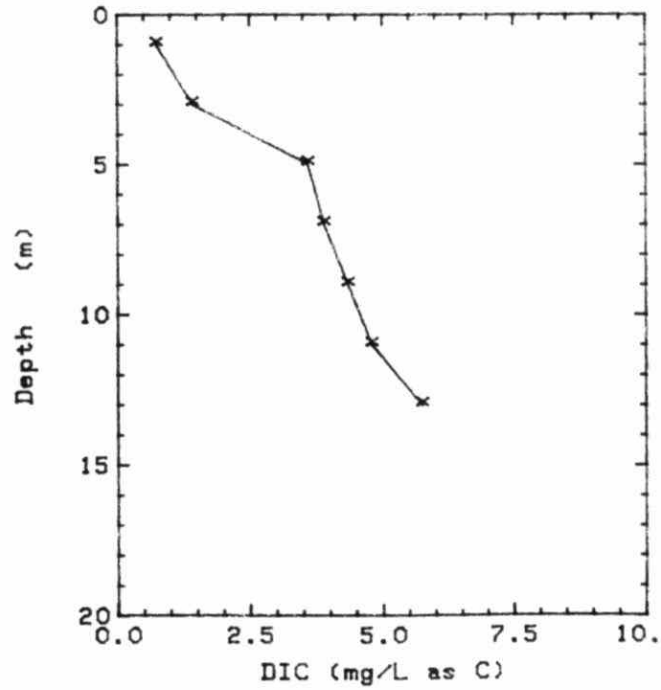

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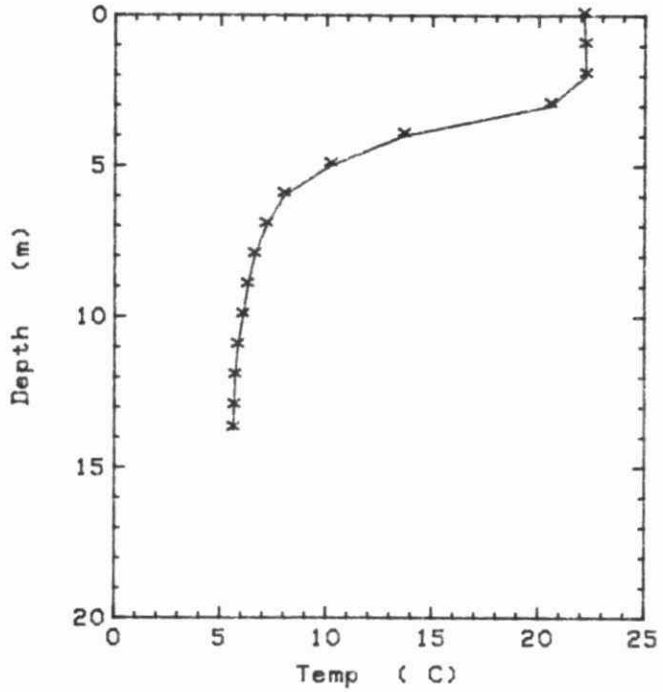


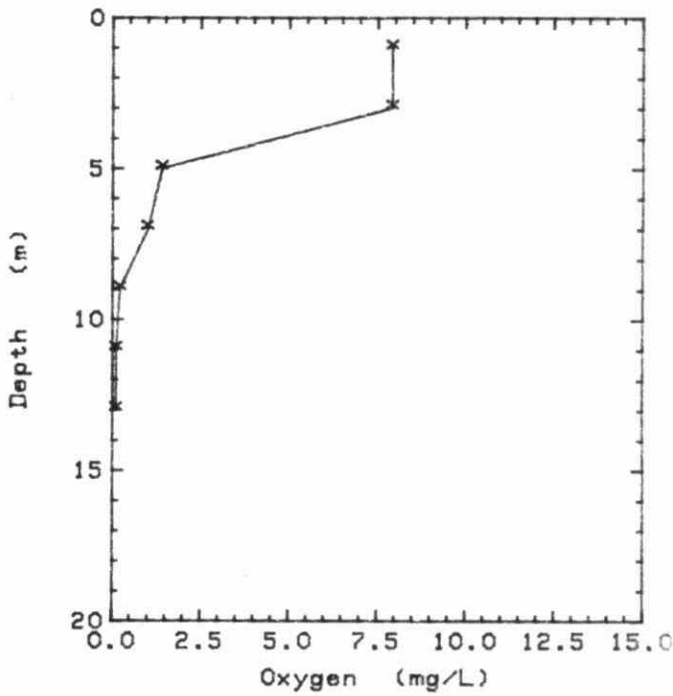


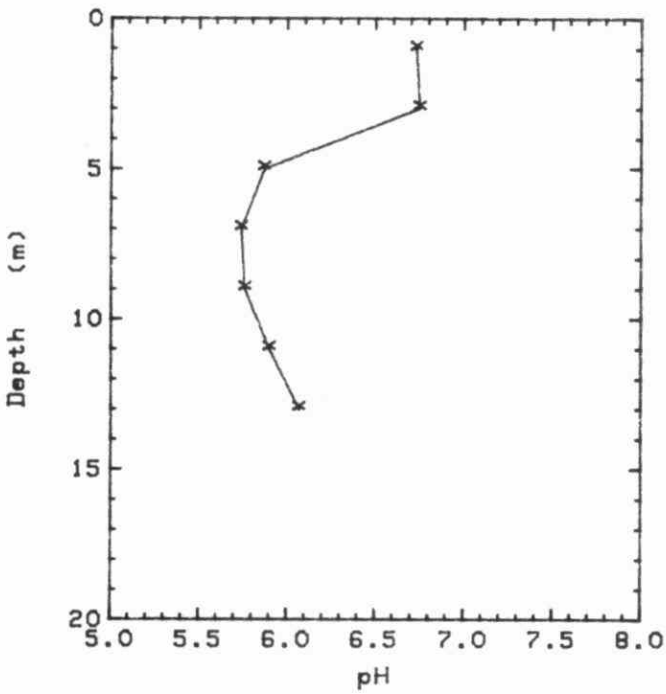


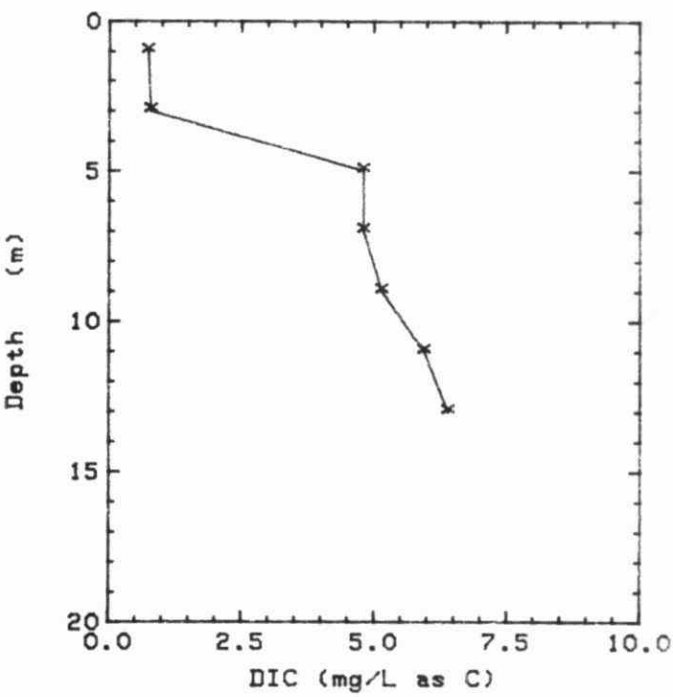

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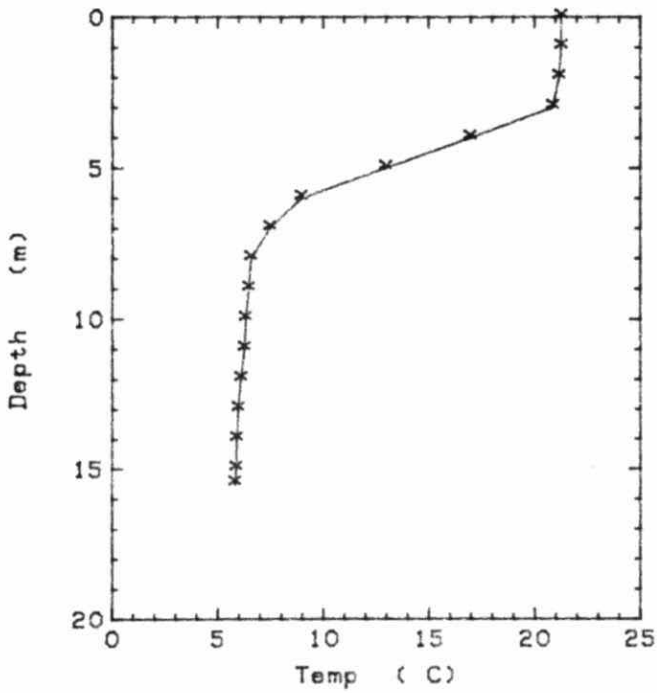


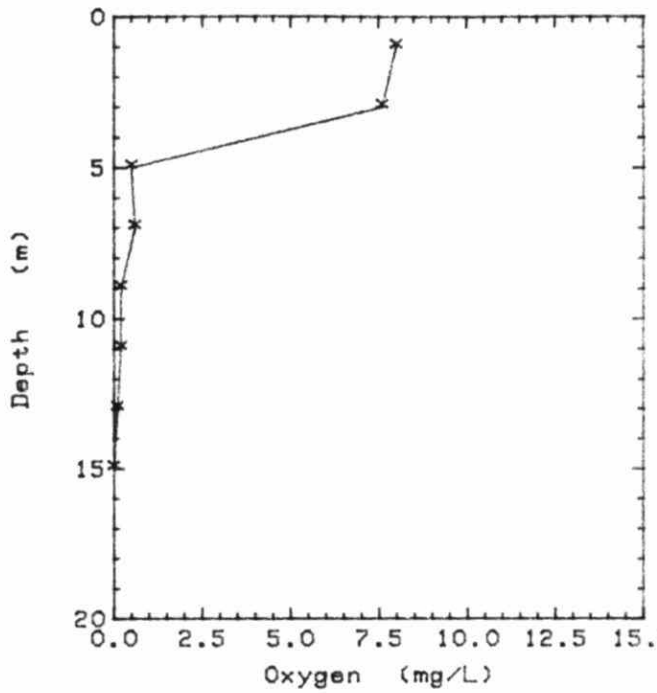


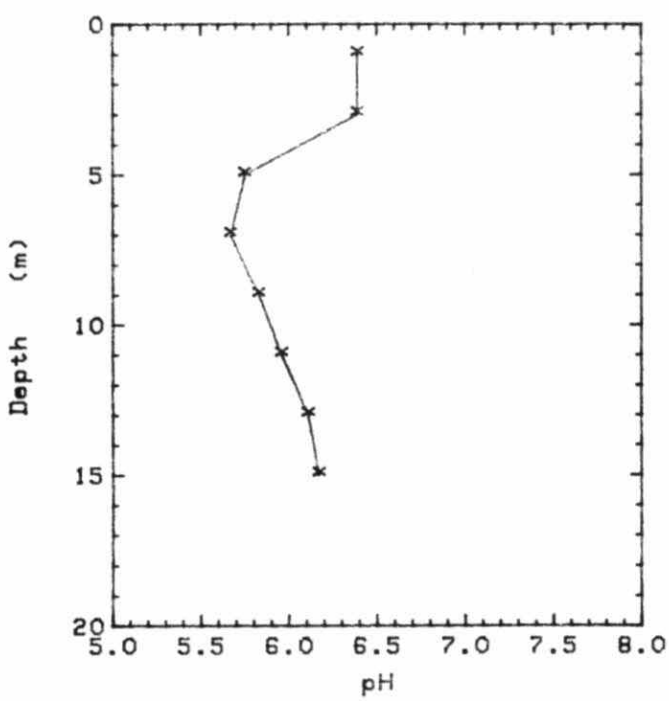


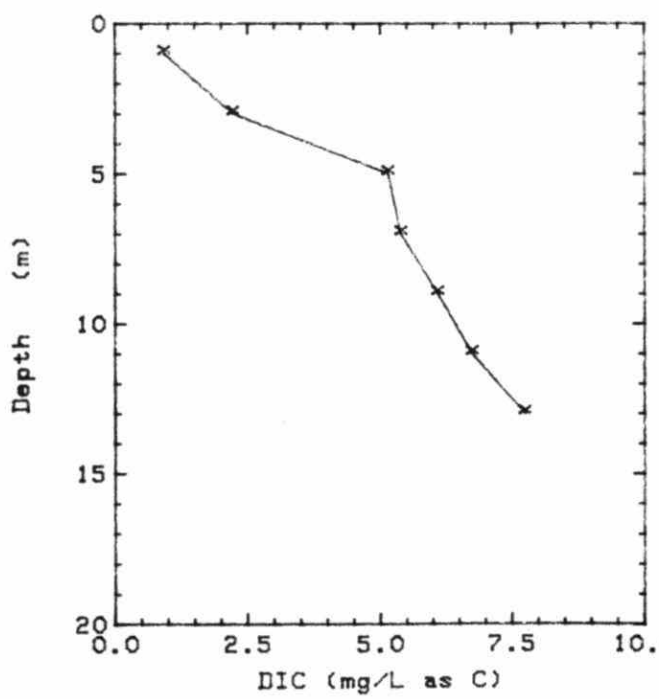

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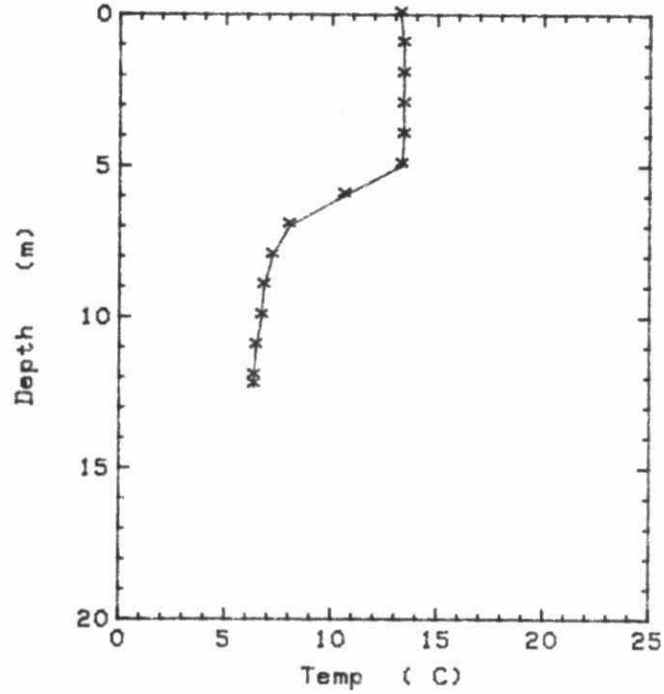


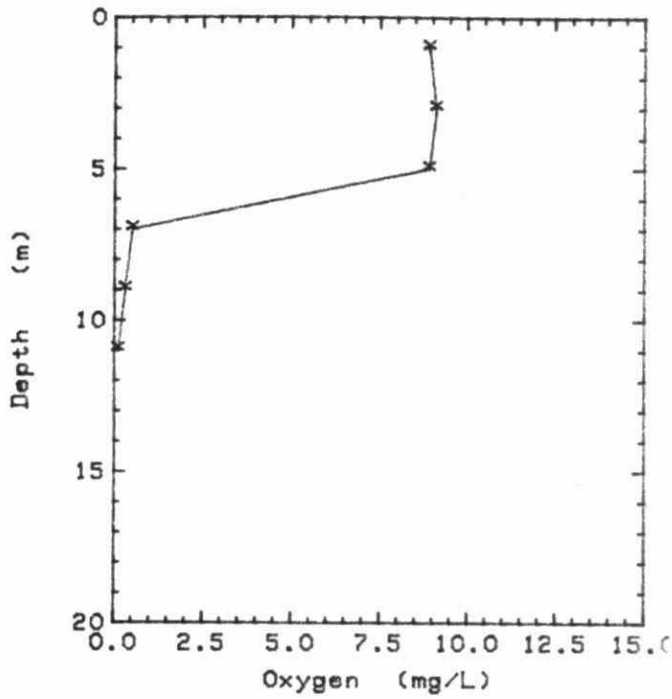


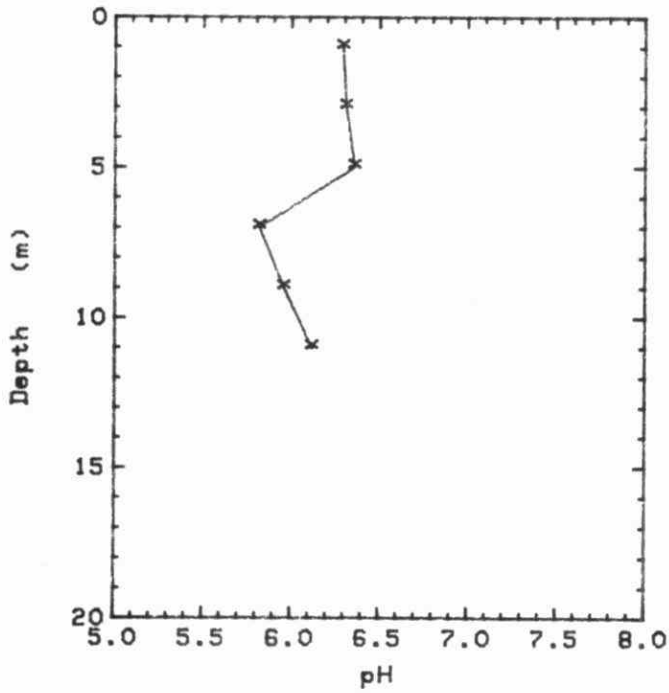


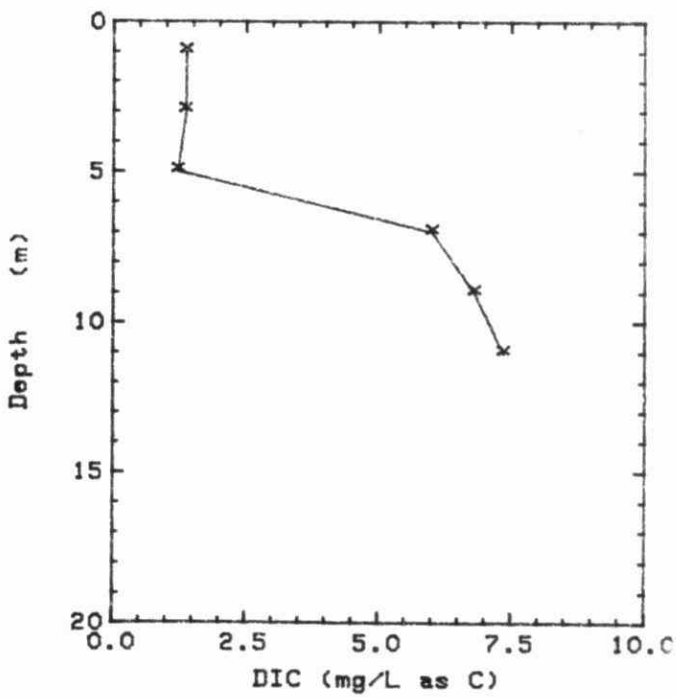

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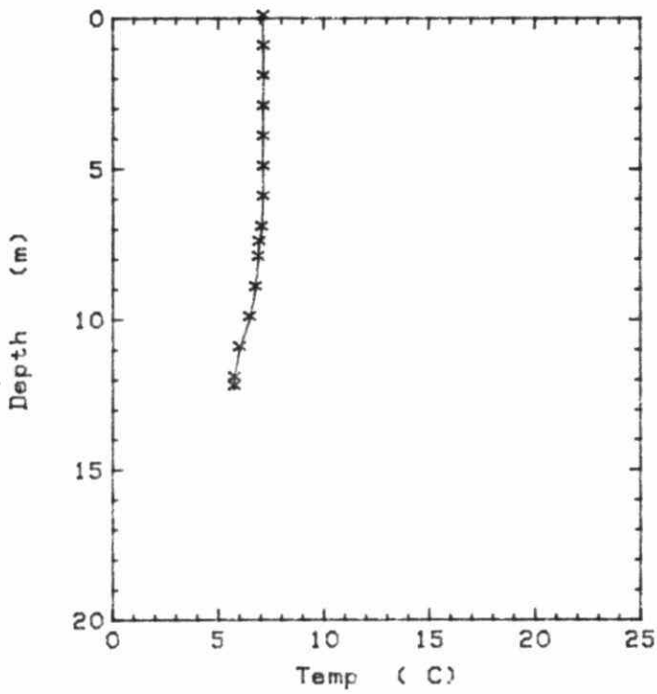
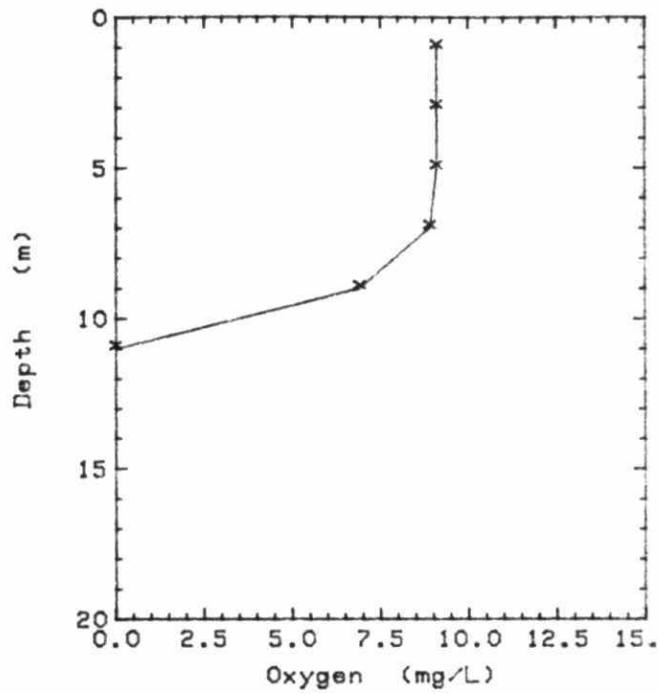
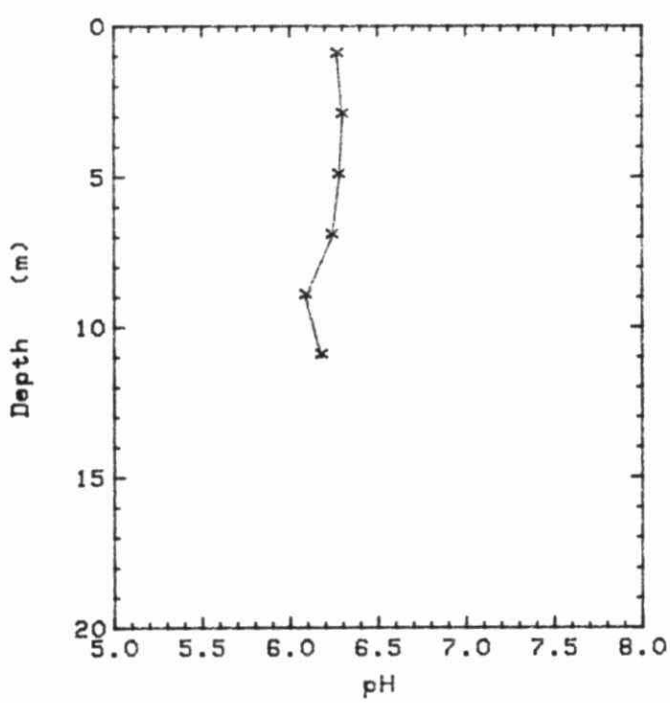
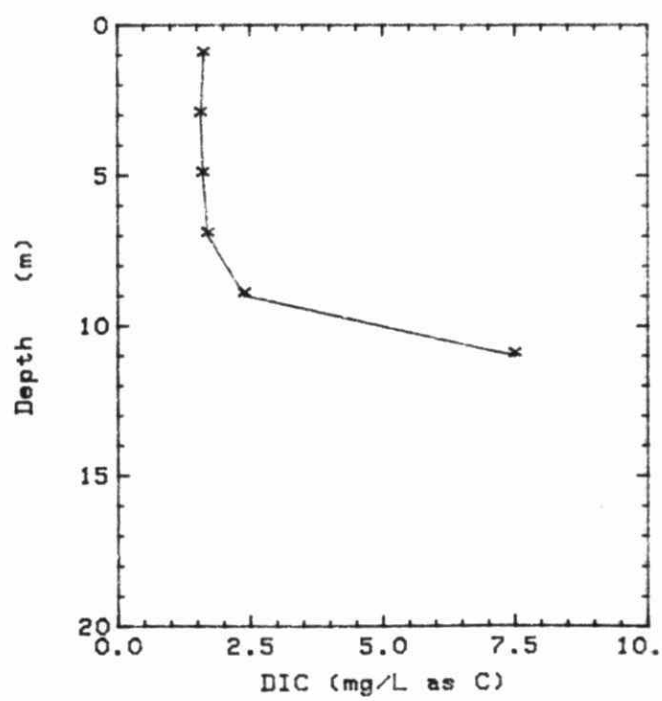
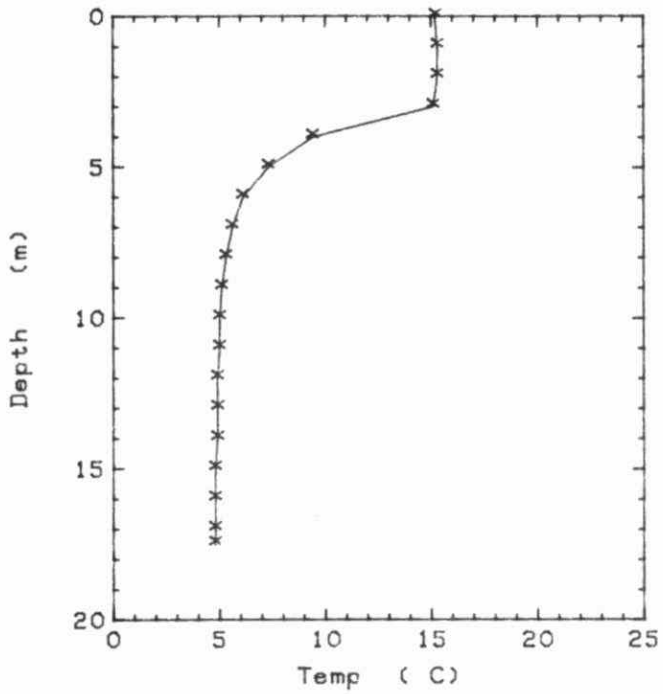


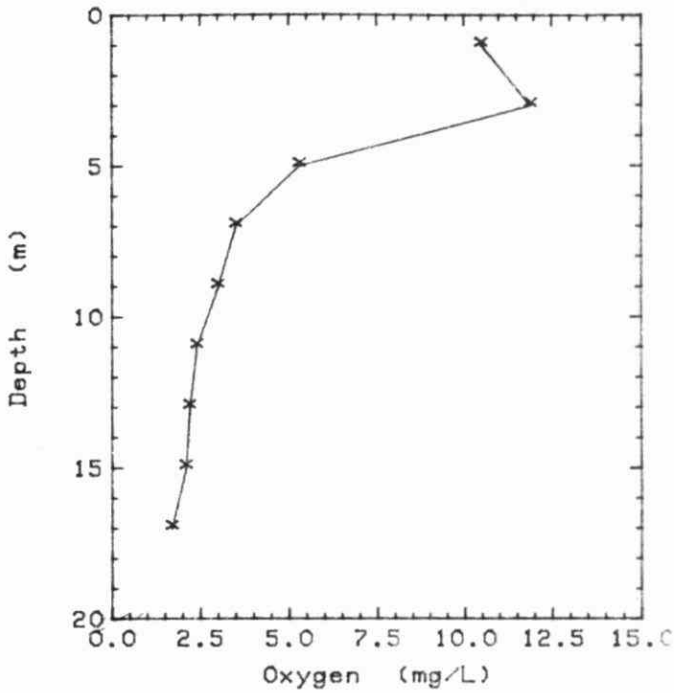



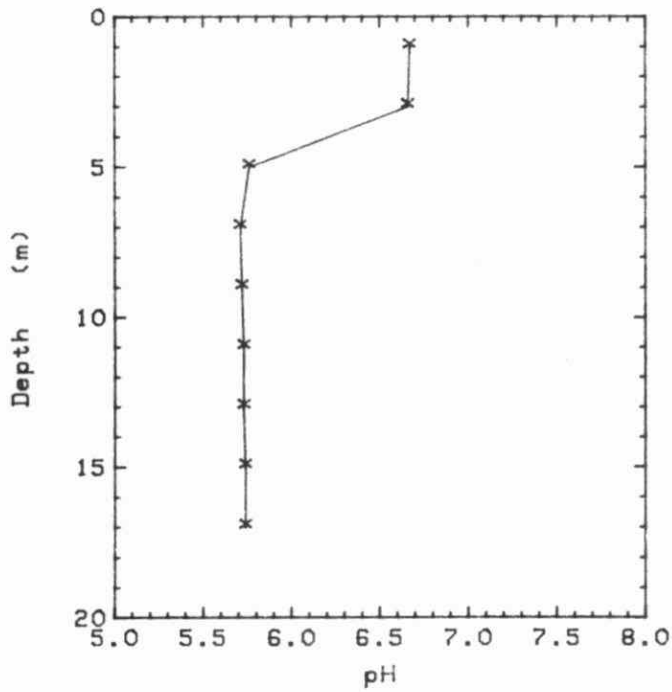



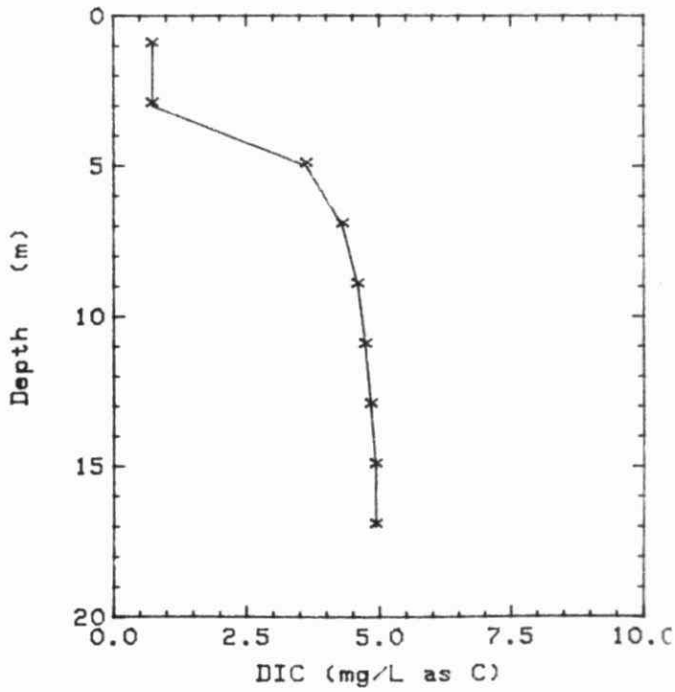



# POKER 84.05.28

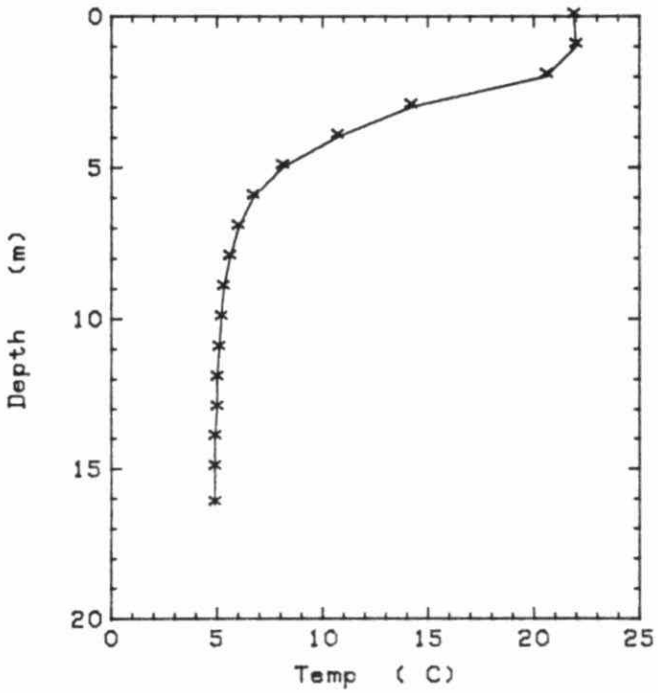


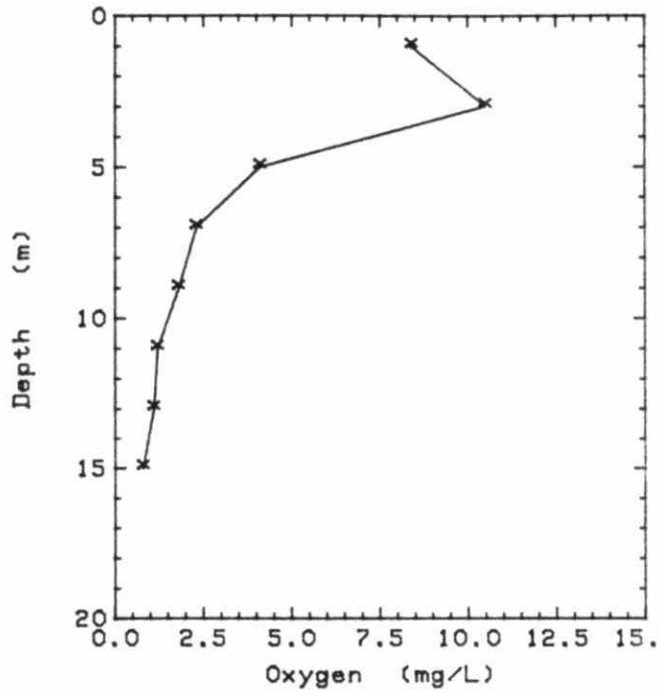



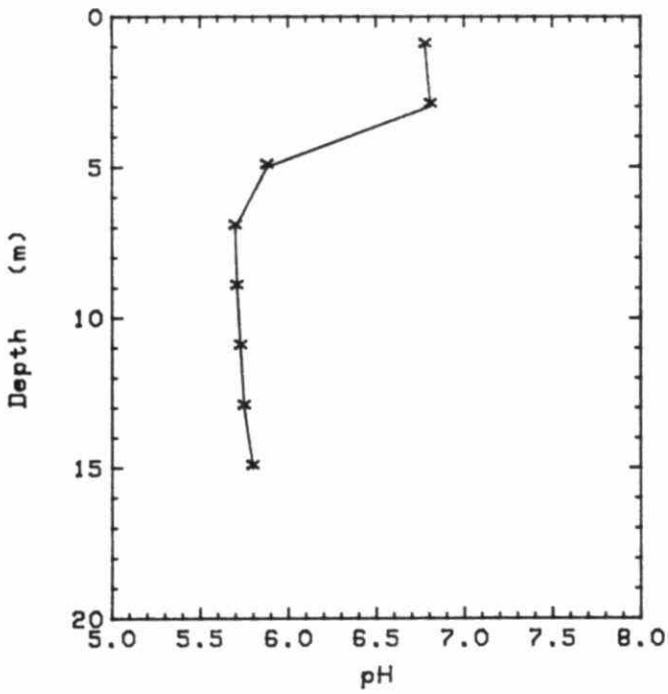



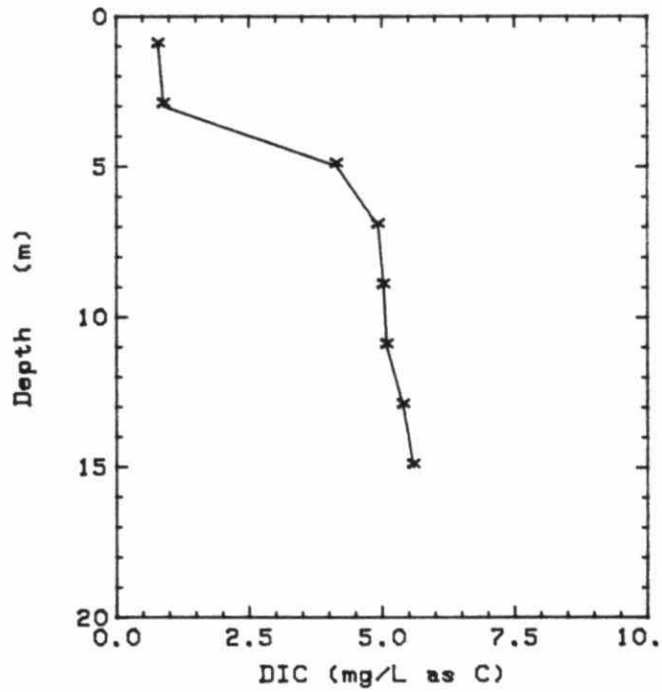



# POKER 84.06.14

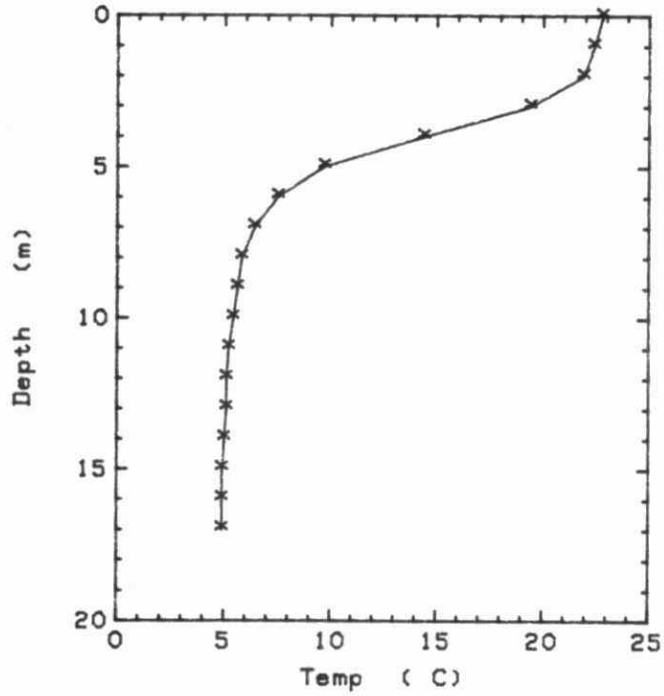


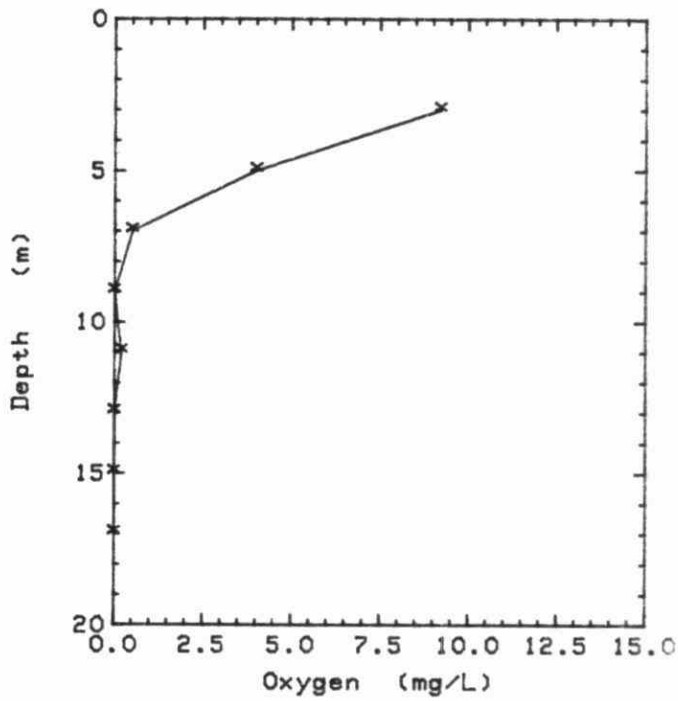



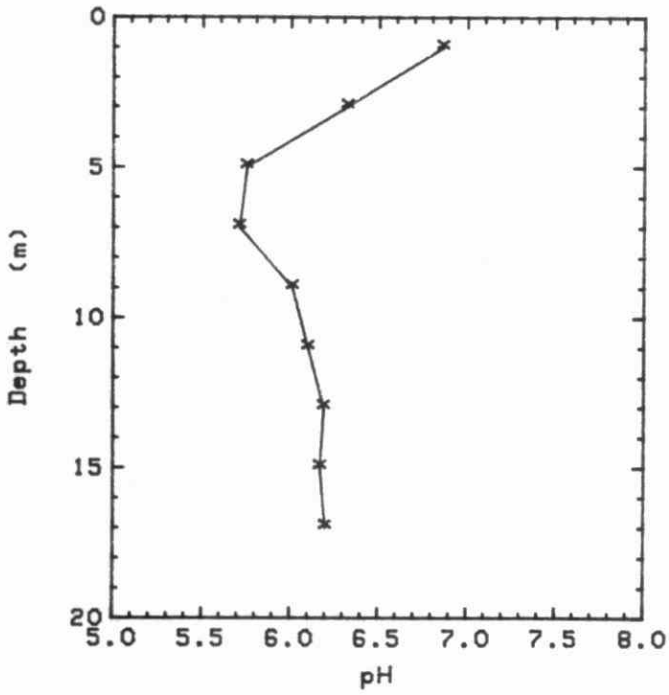



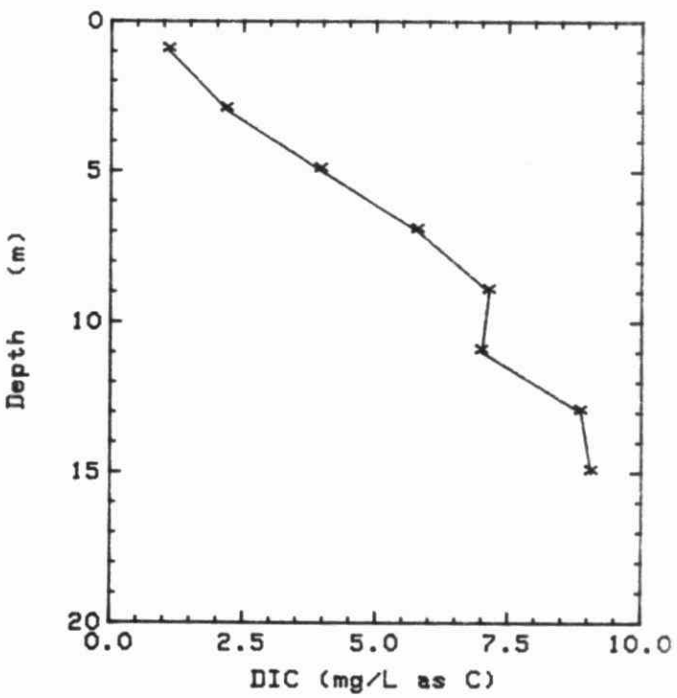



# POKER 84.07.19

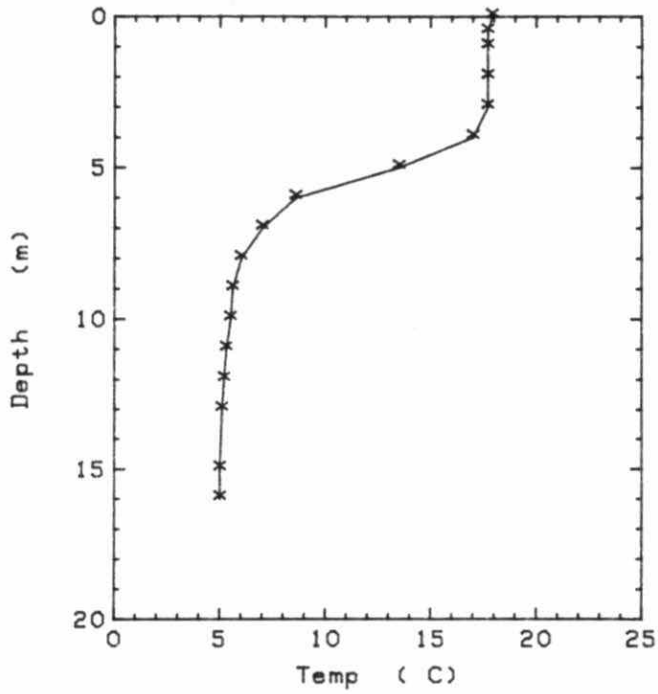


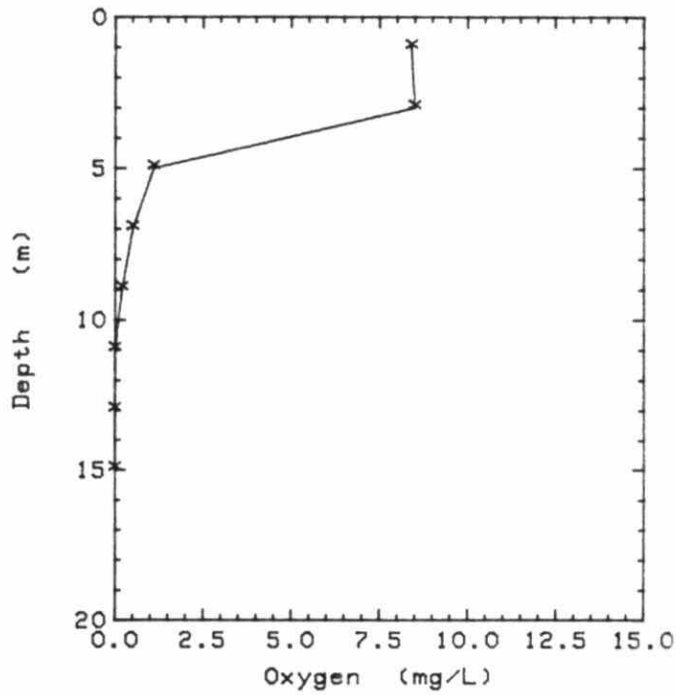



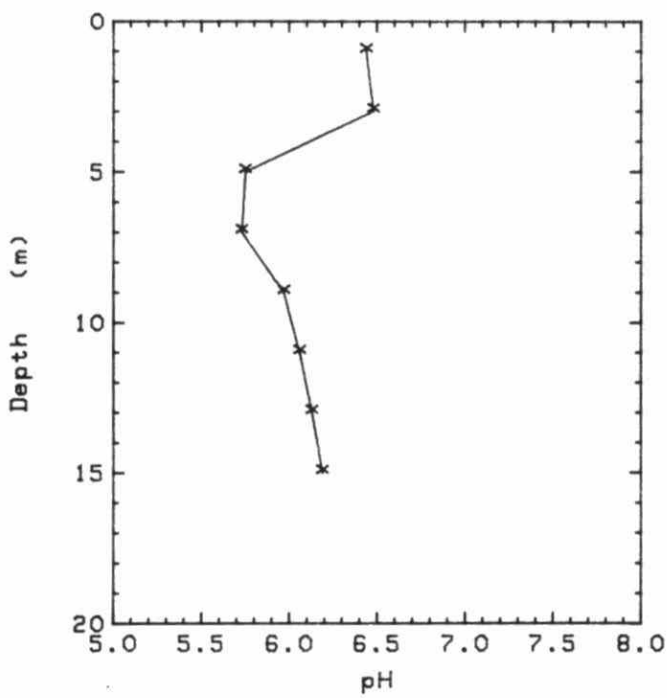



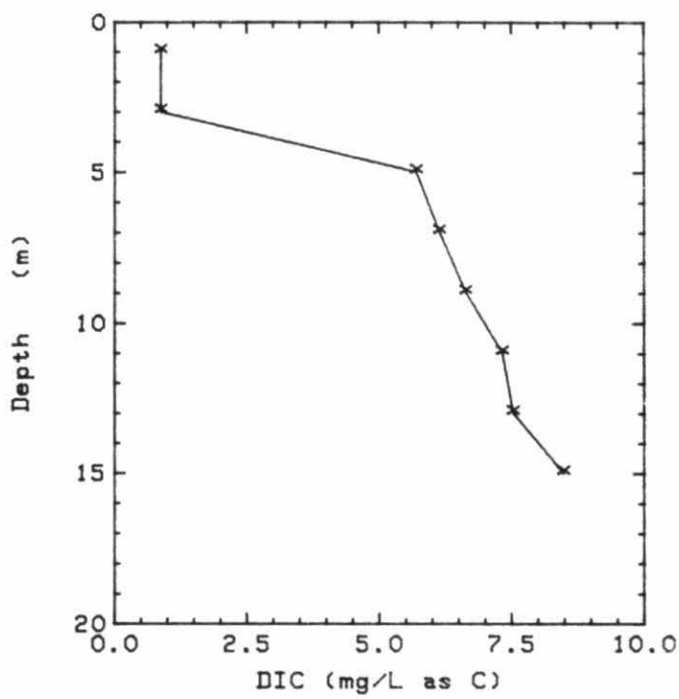



# POKER 84.09.11

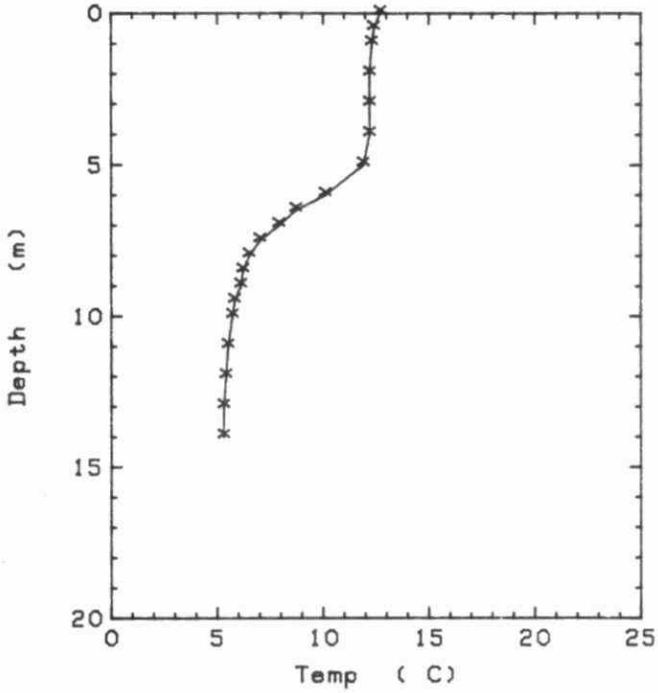


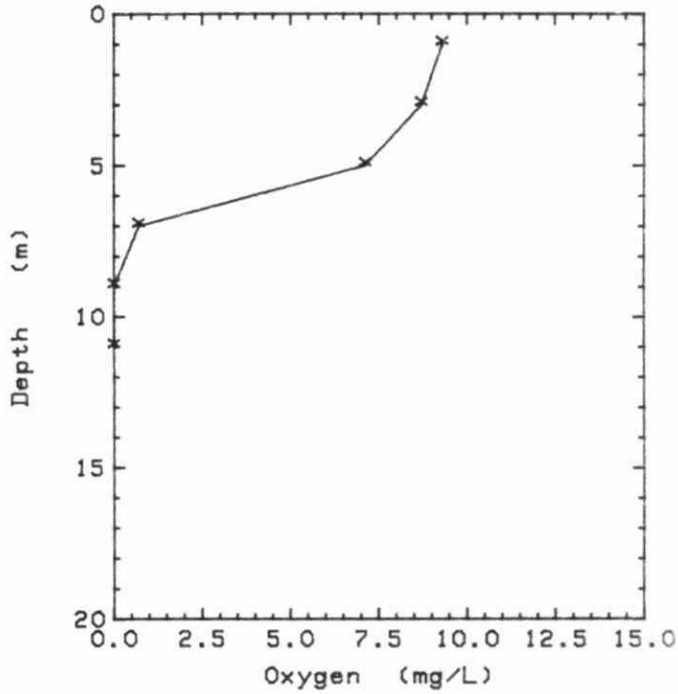



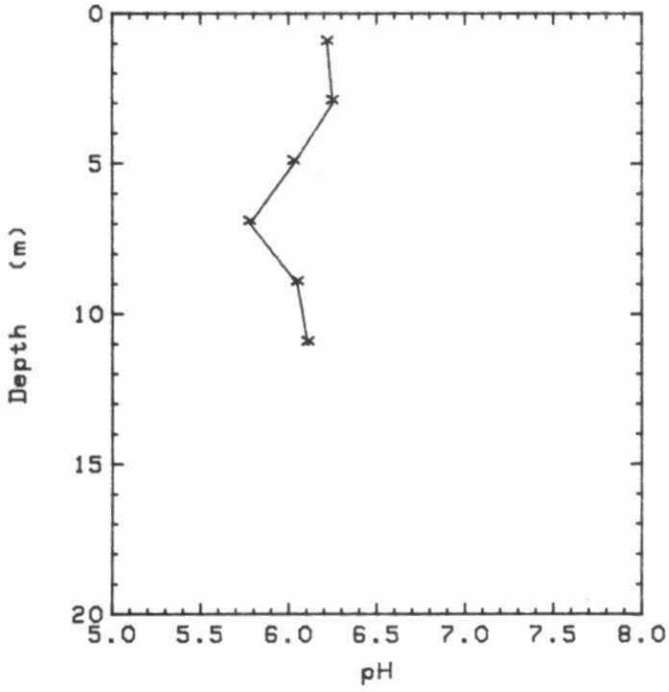



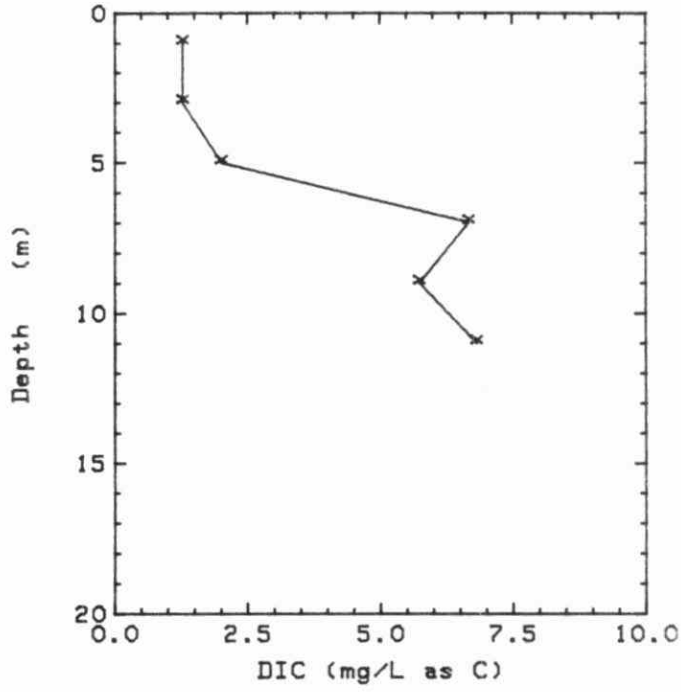



# POKER 84.10.22

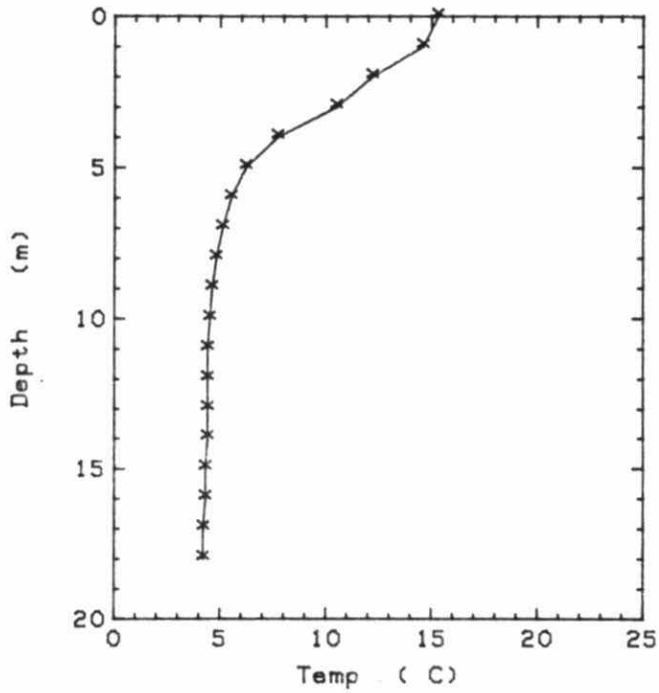


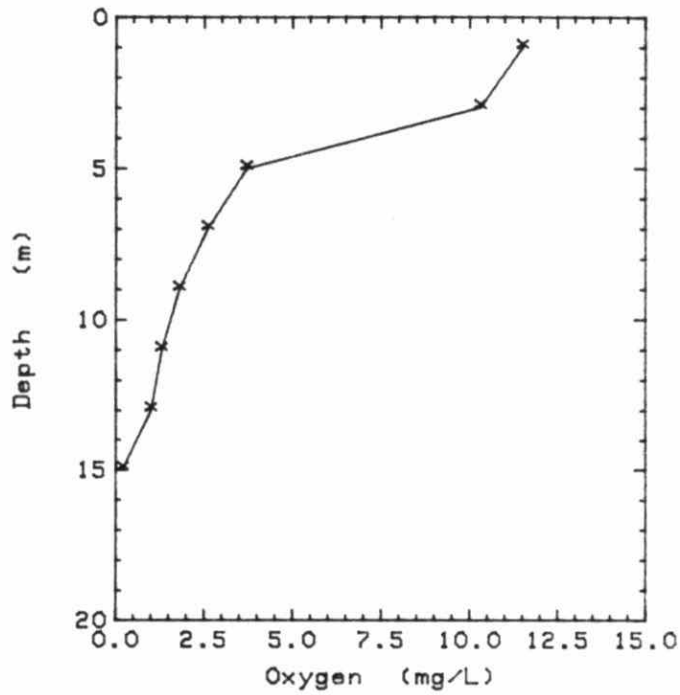



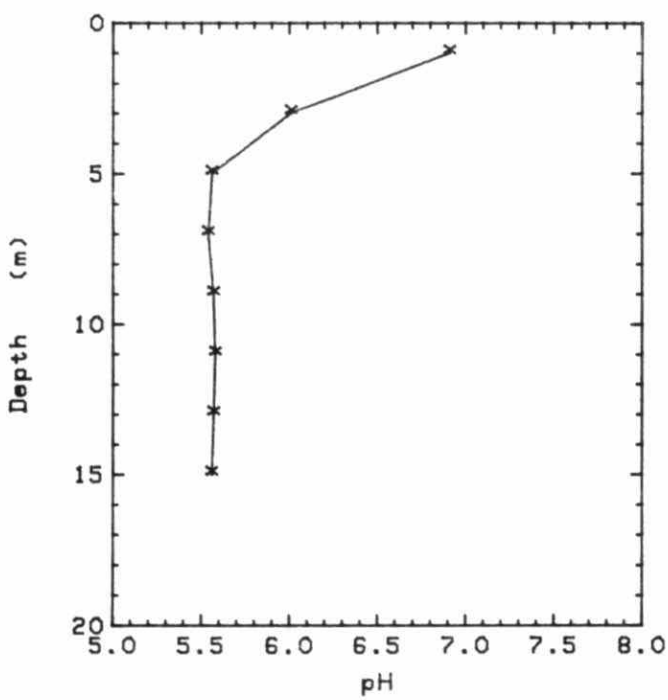



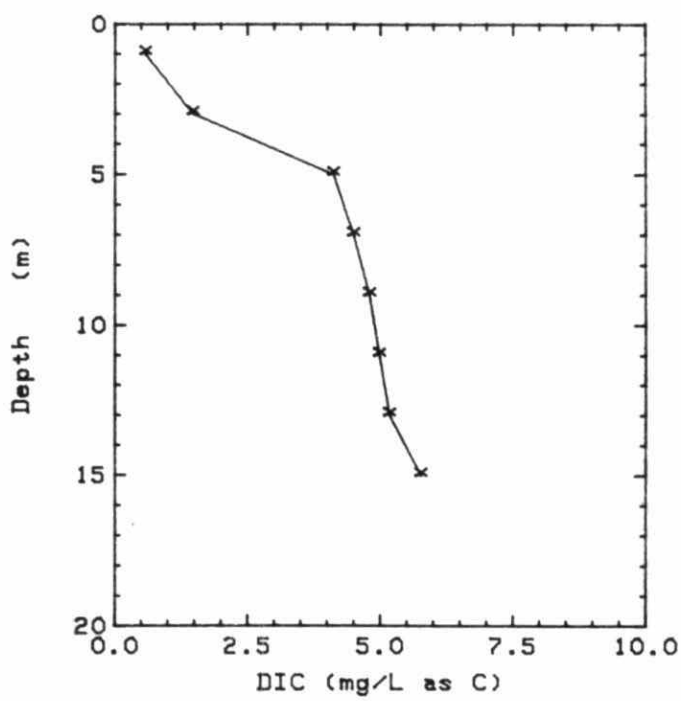



# POKER 85.05.22

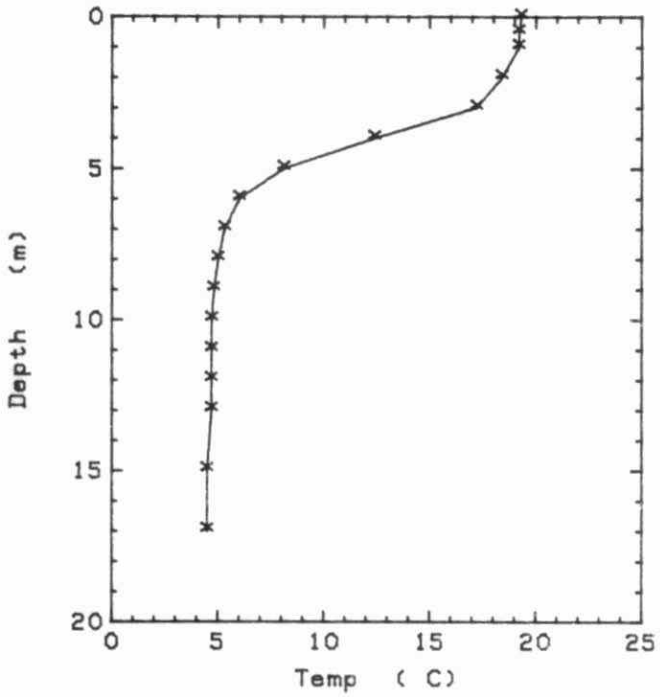


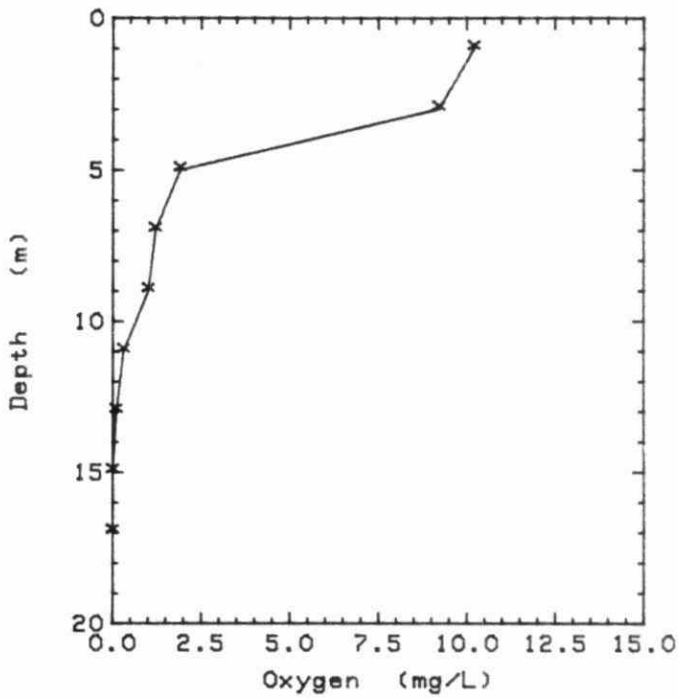



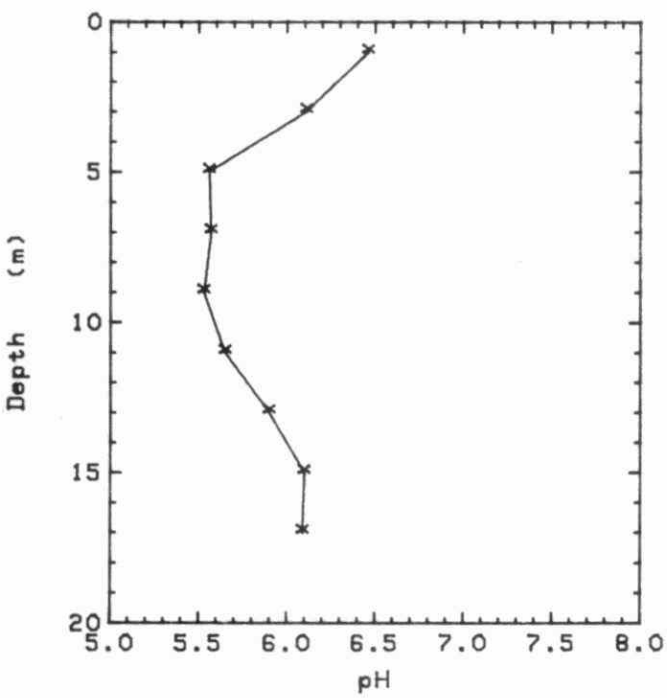



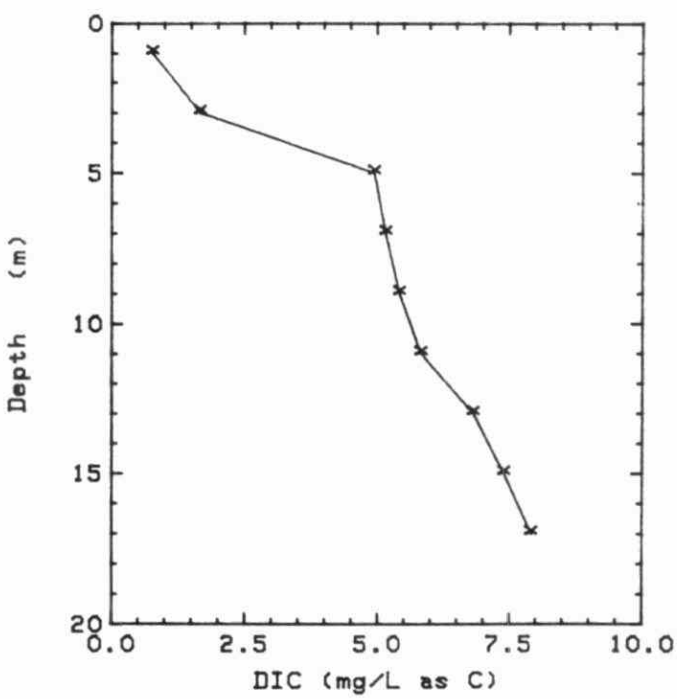



# POKER 85.06.27

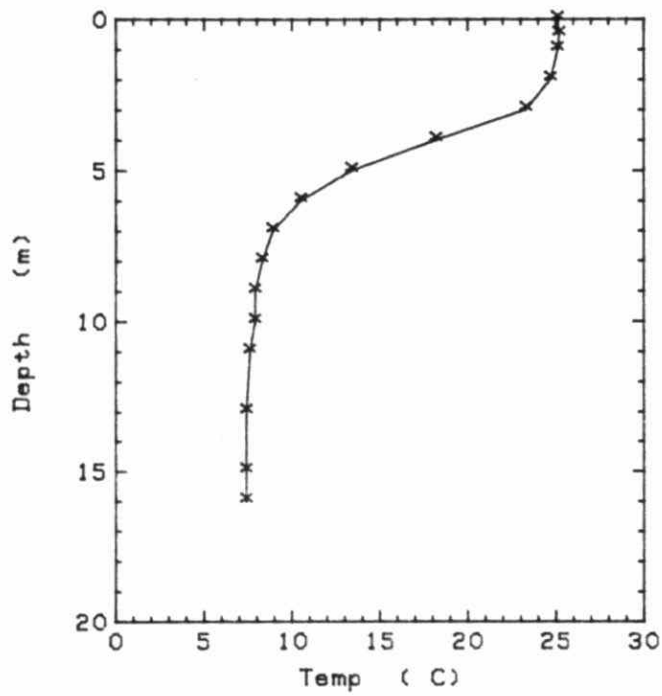


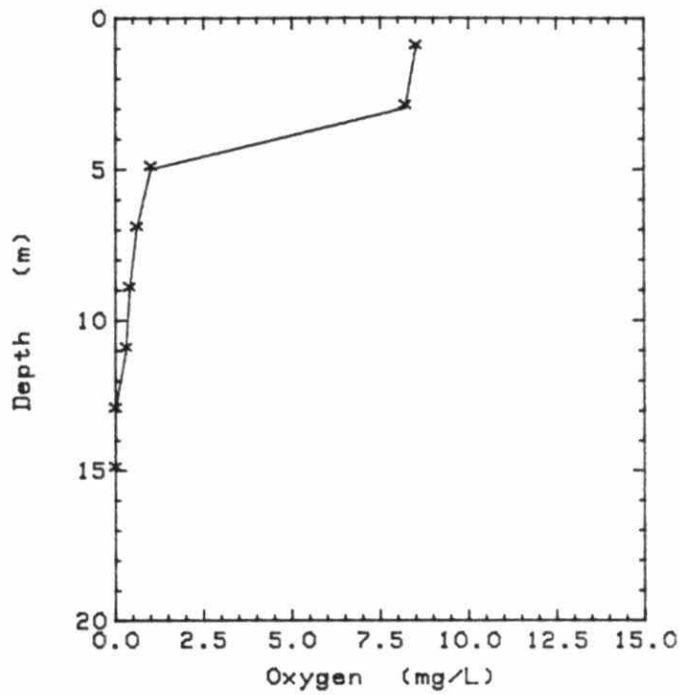



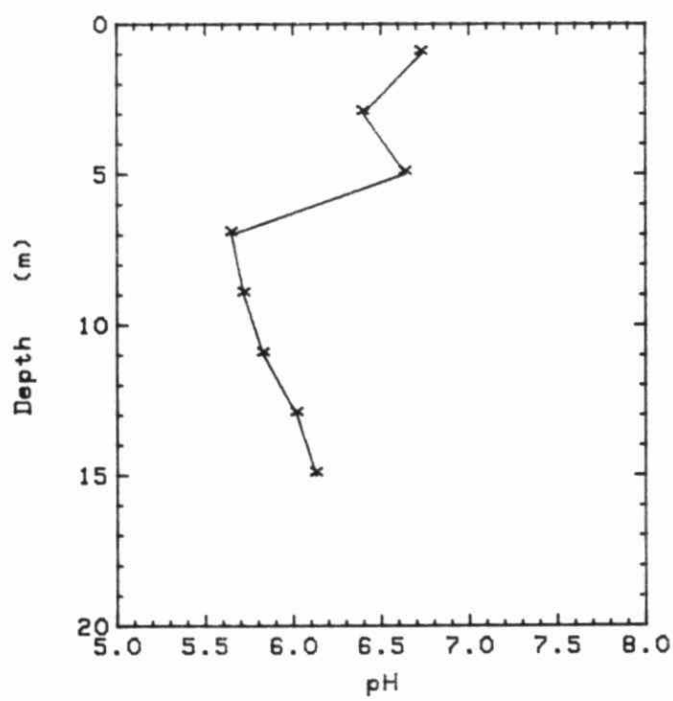



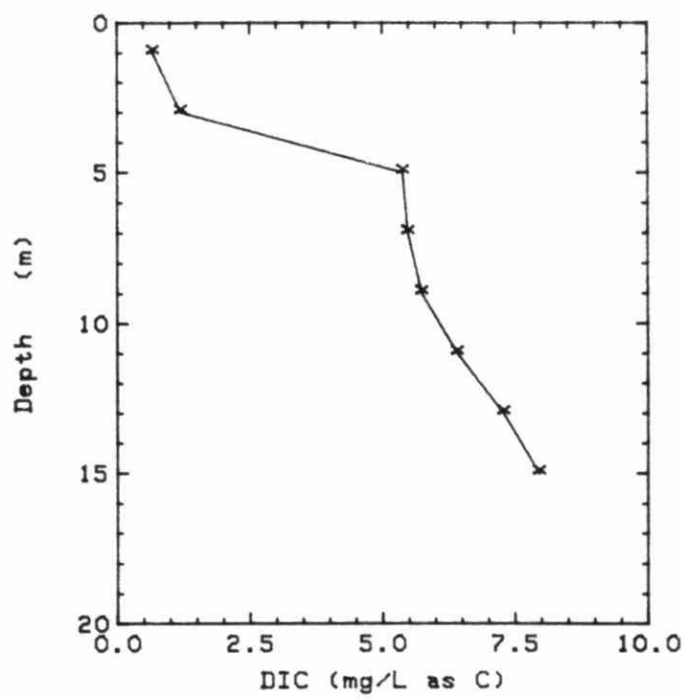



# POKER 85.07.25

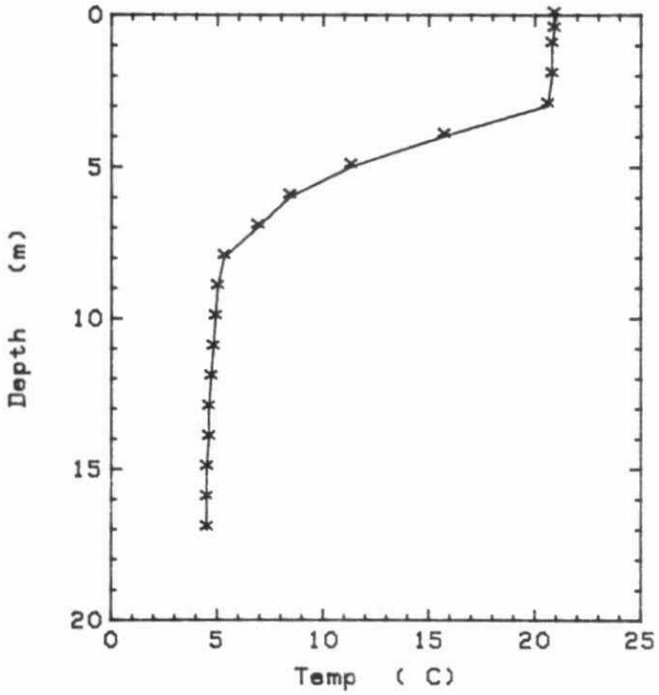


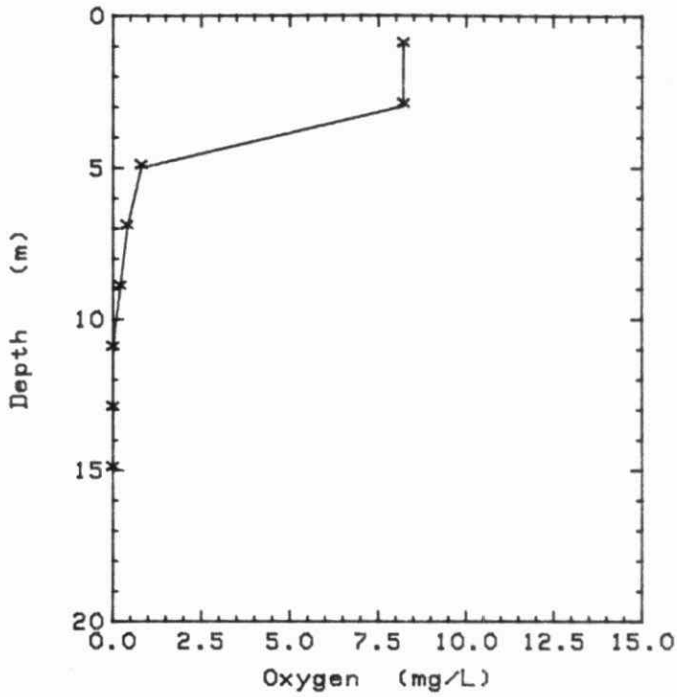



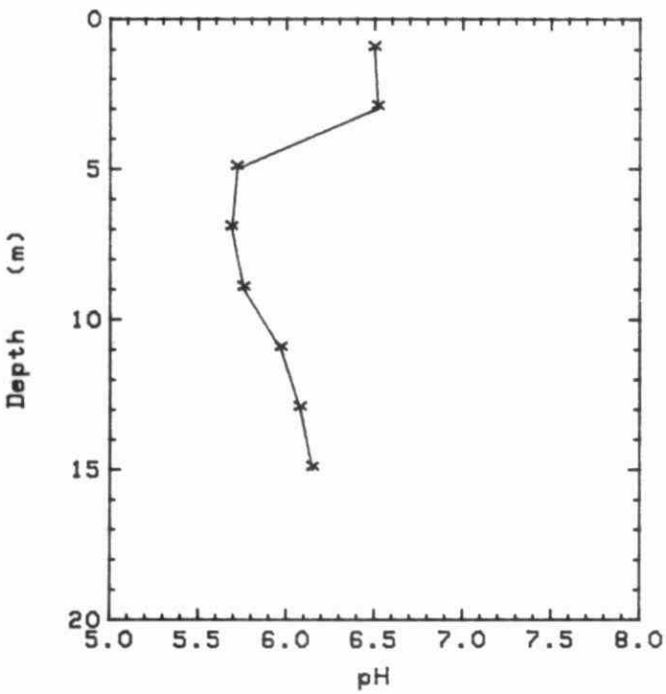



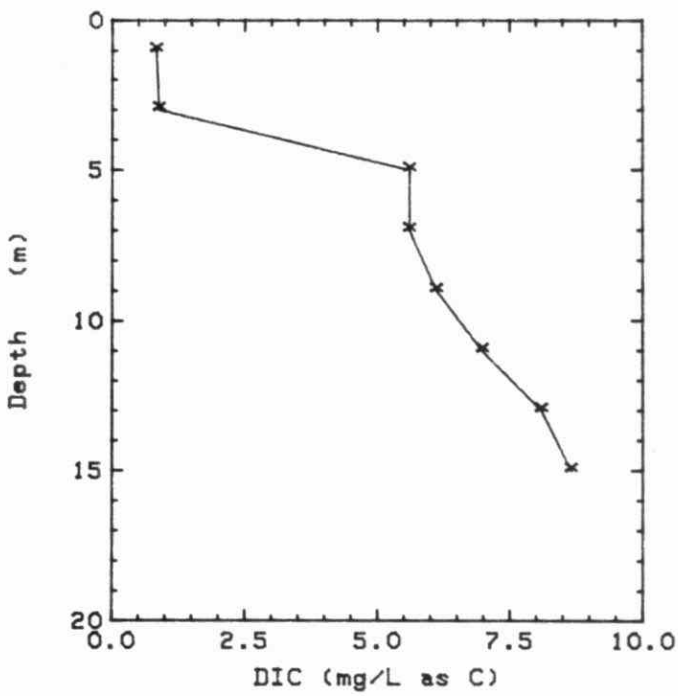



# POKER 85.08.22



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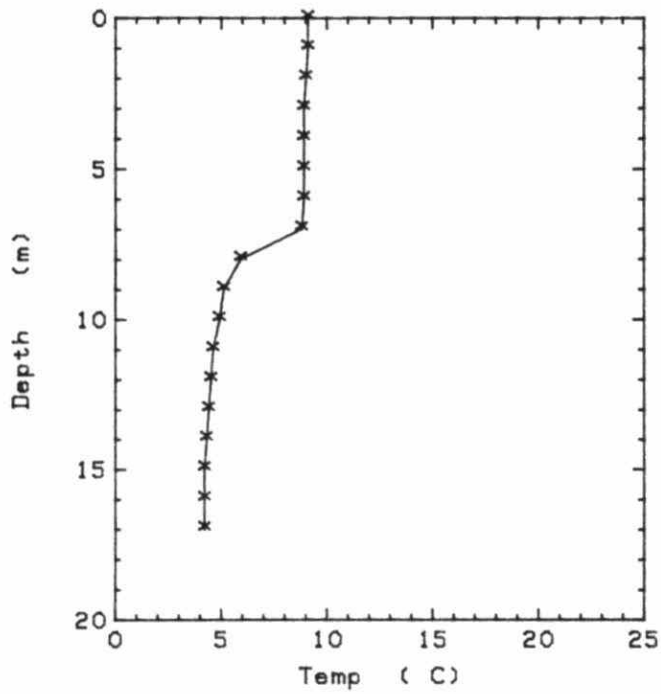


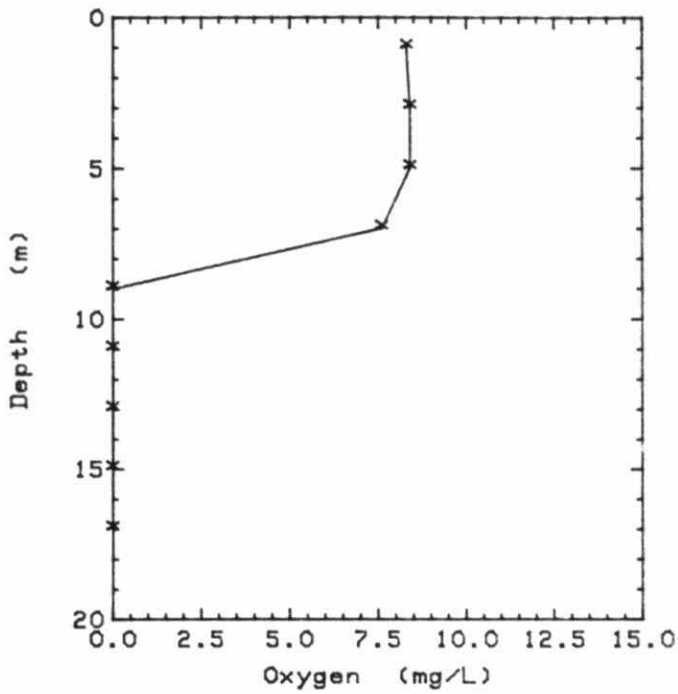


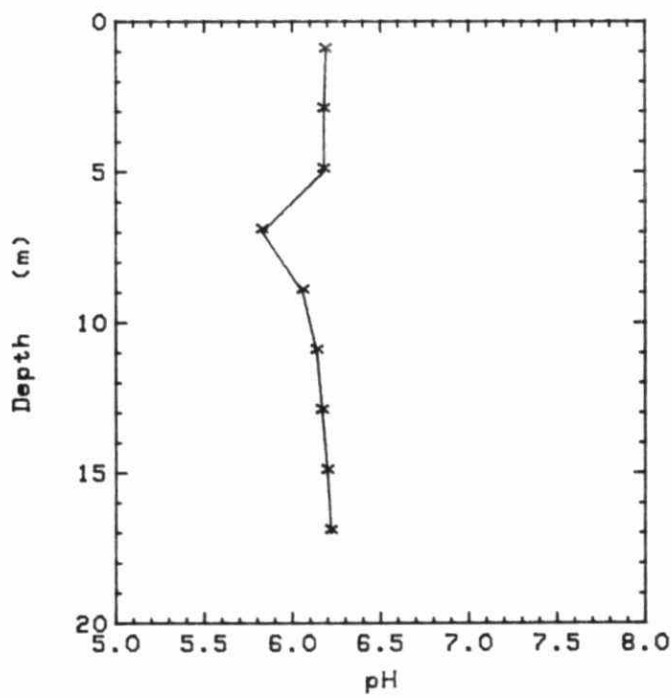


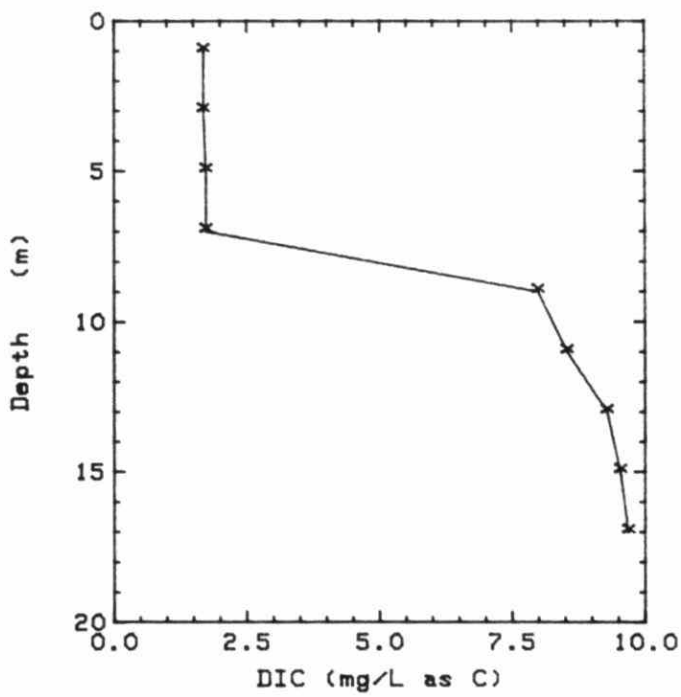

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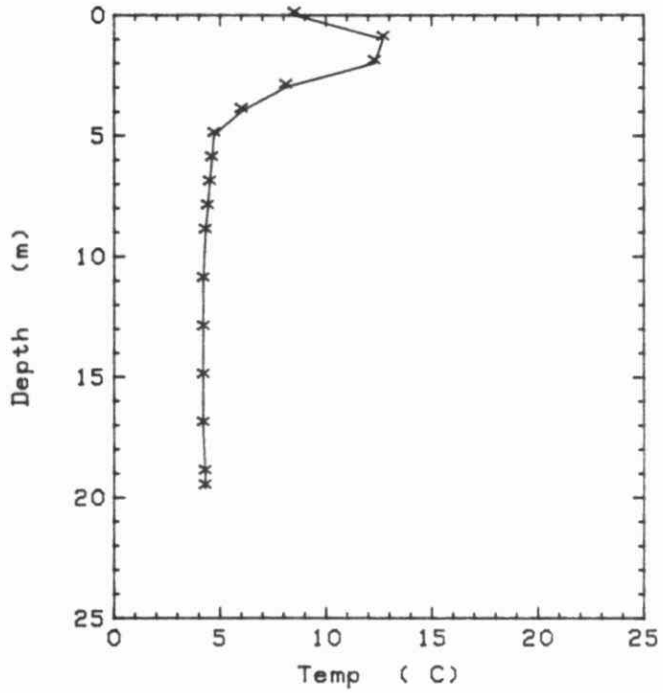
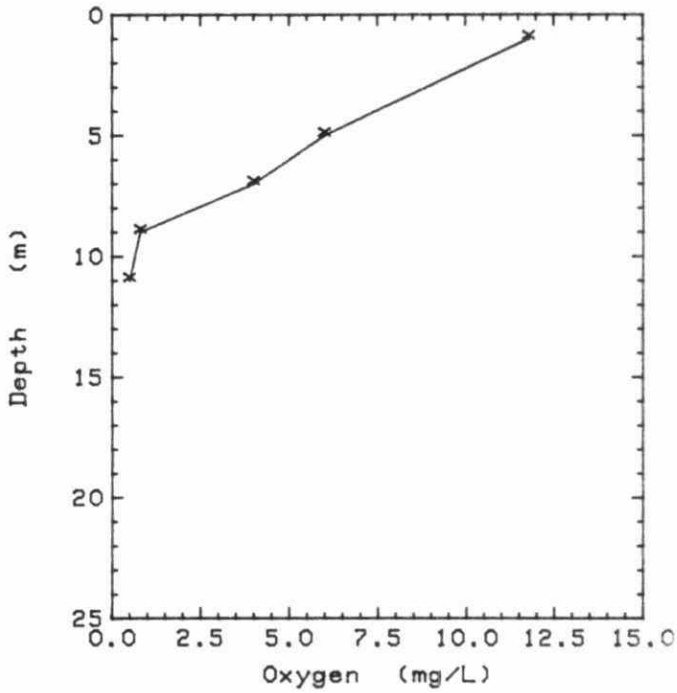
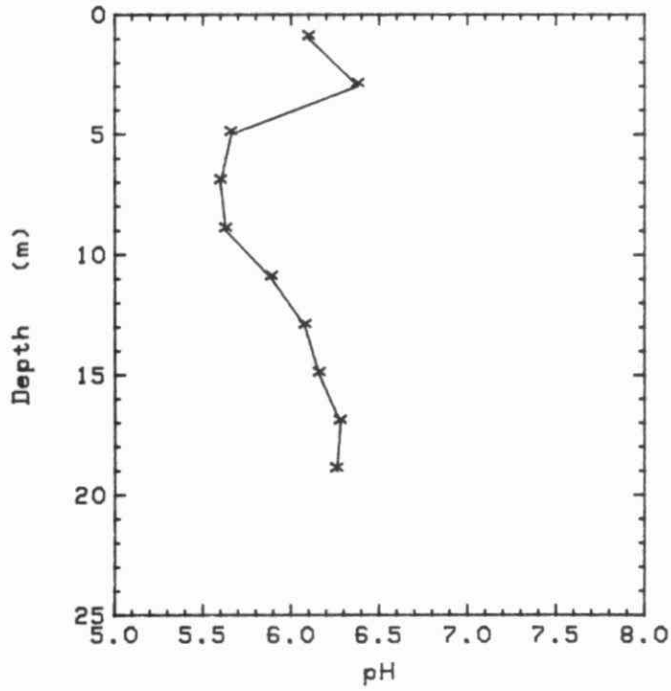
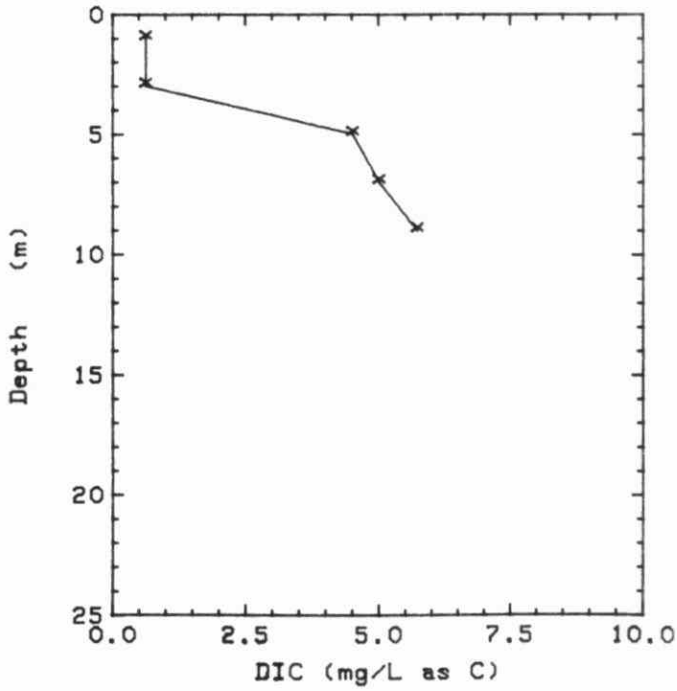
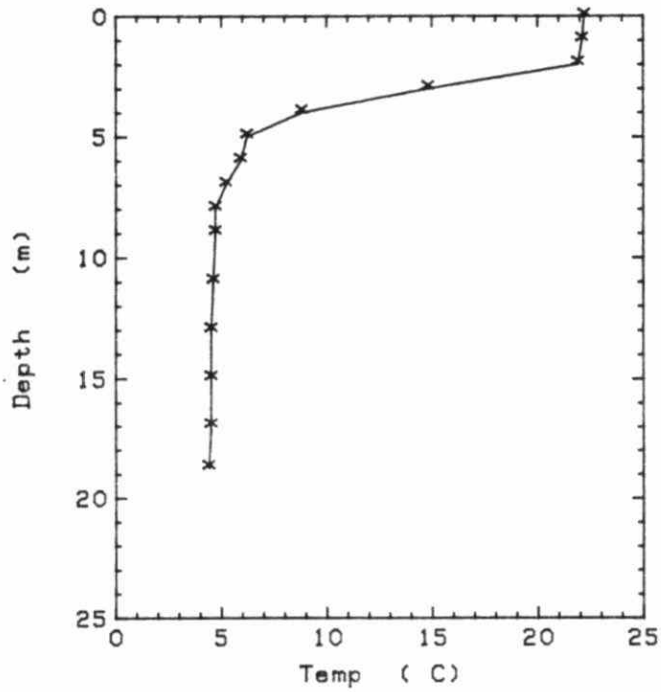


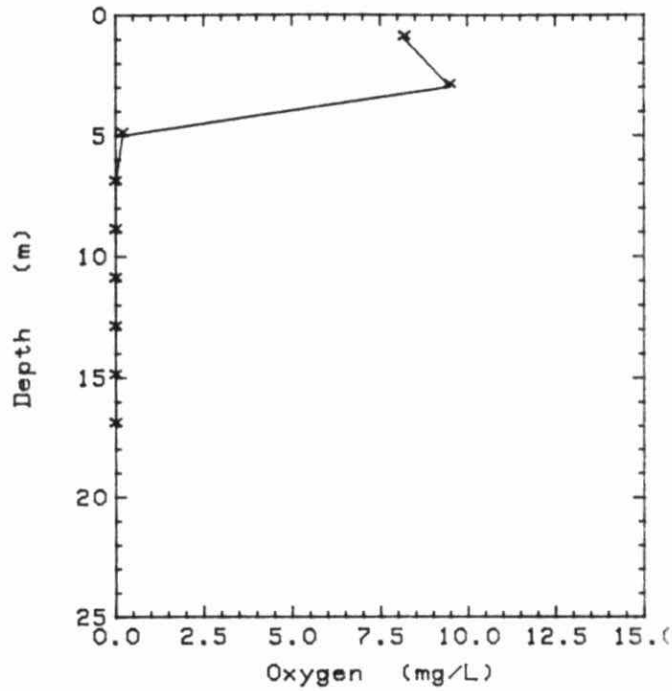



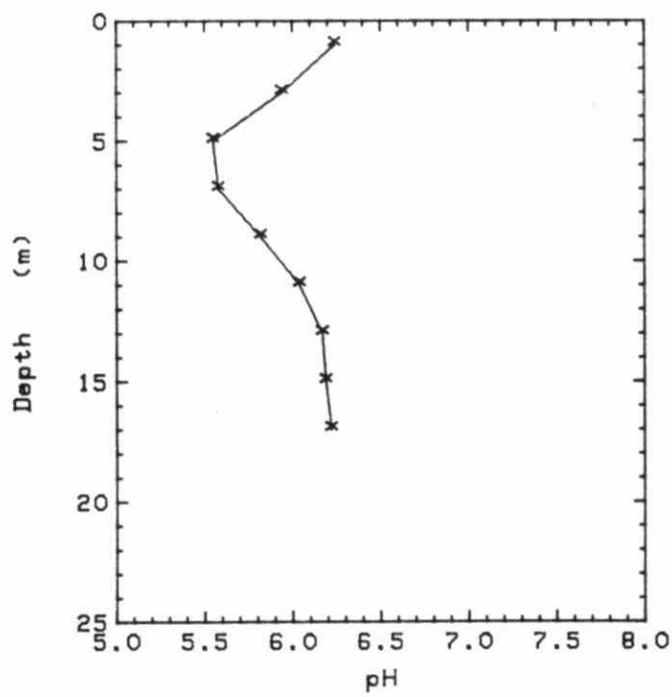



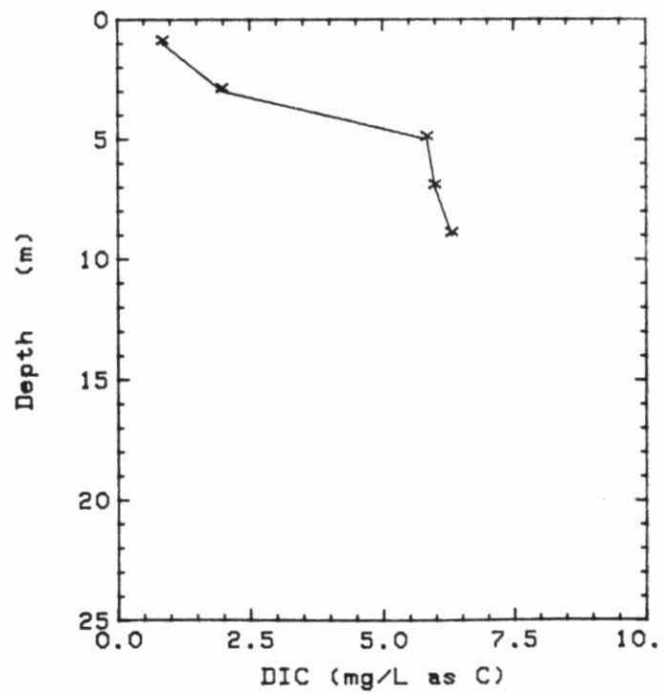



# POKER EAST 83.07.07

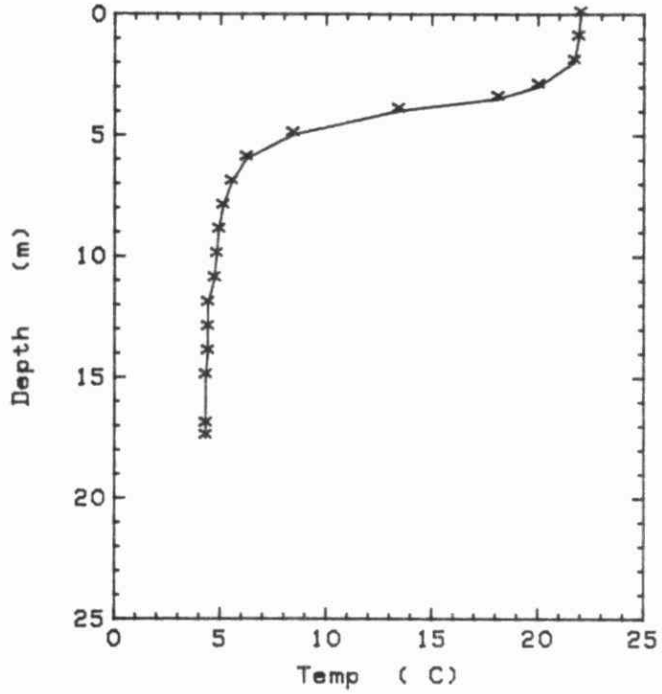


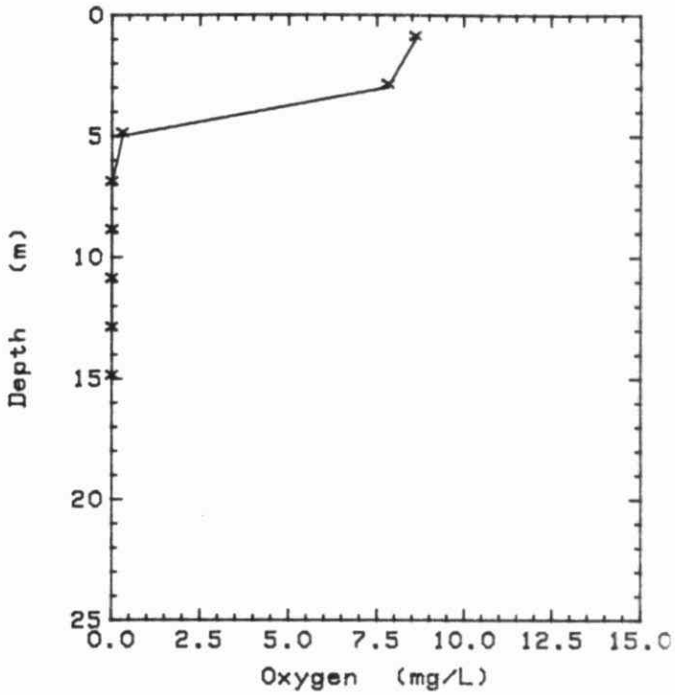



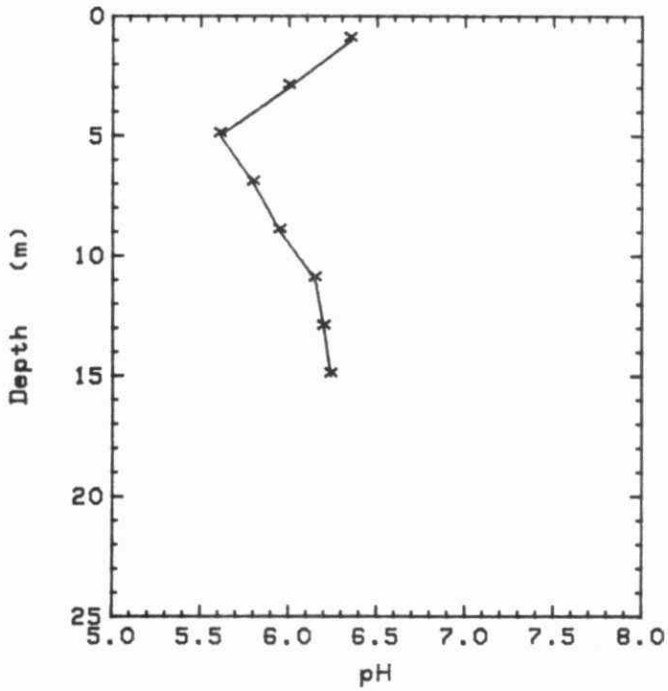



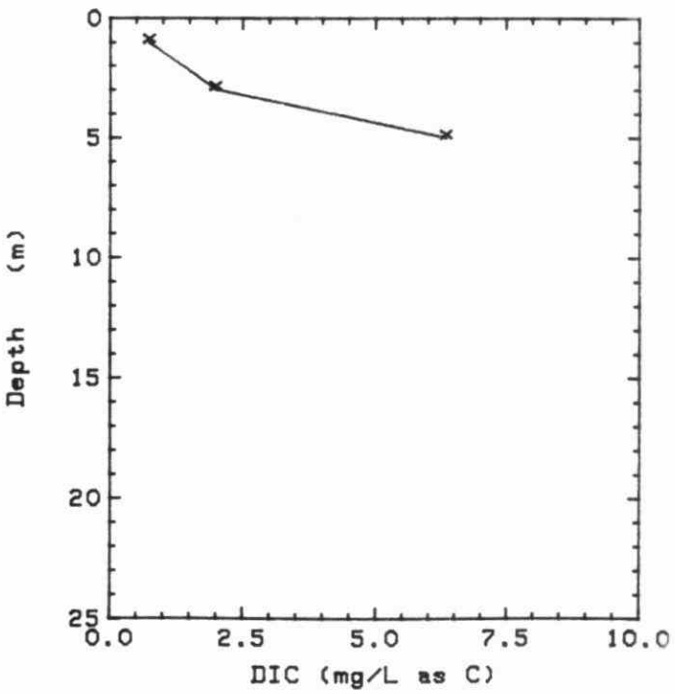



# POKER EAST 83.08.25

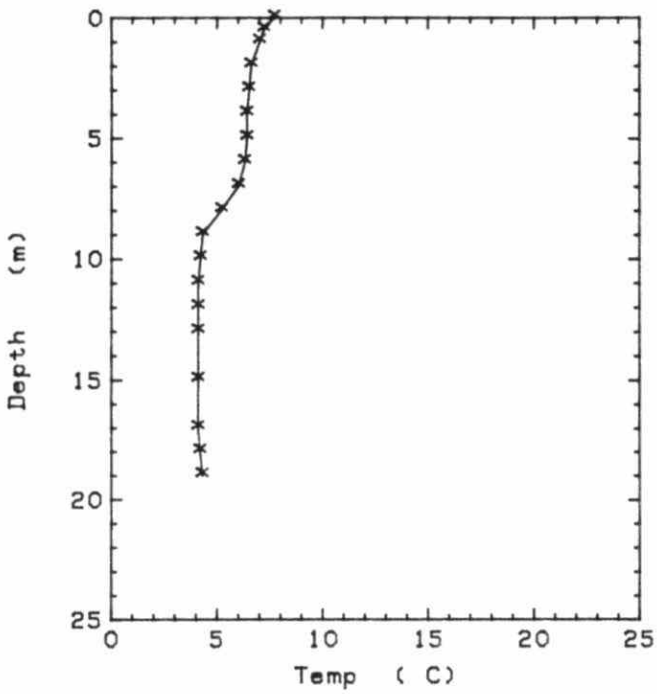


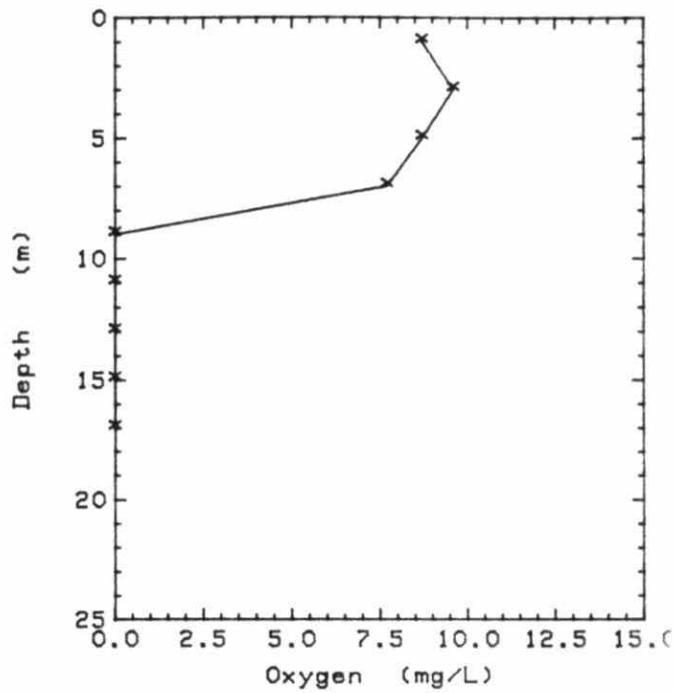



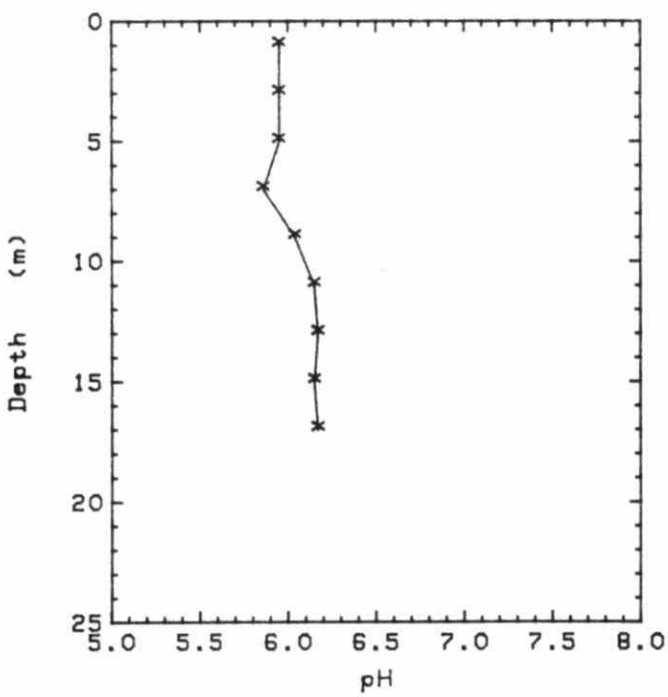



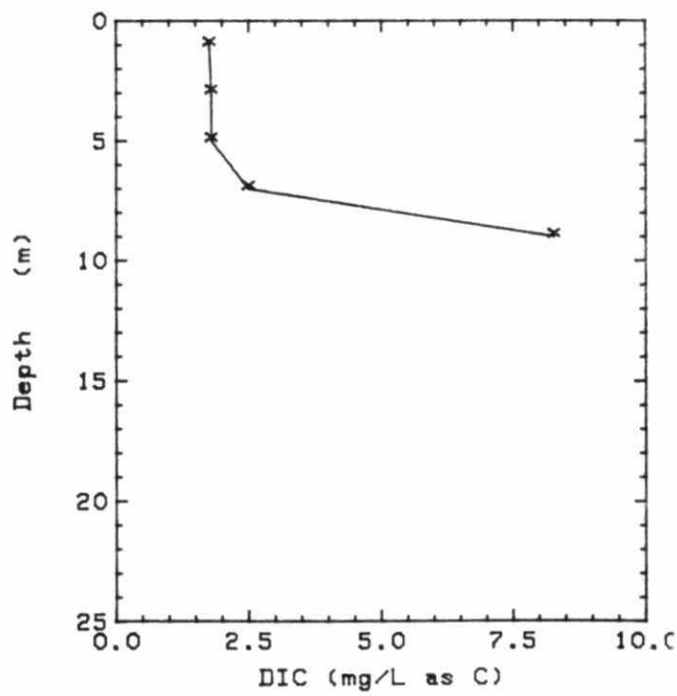



# POKER EAST 83.11.02

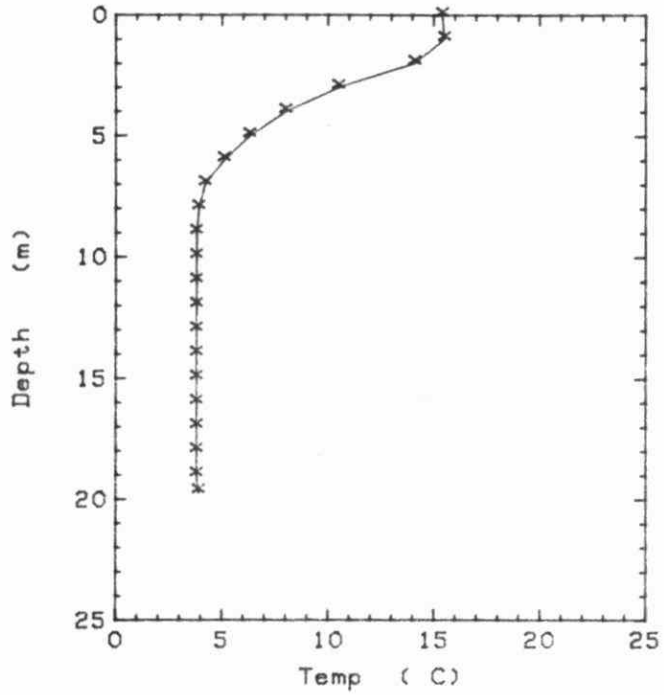


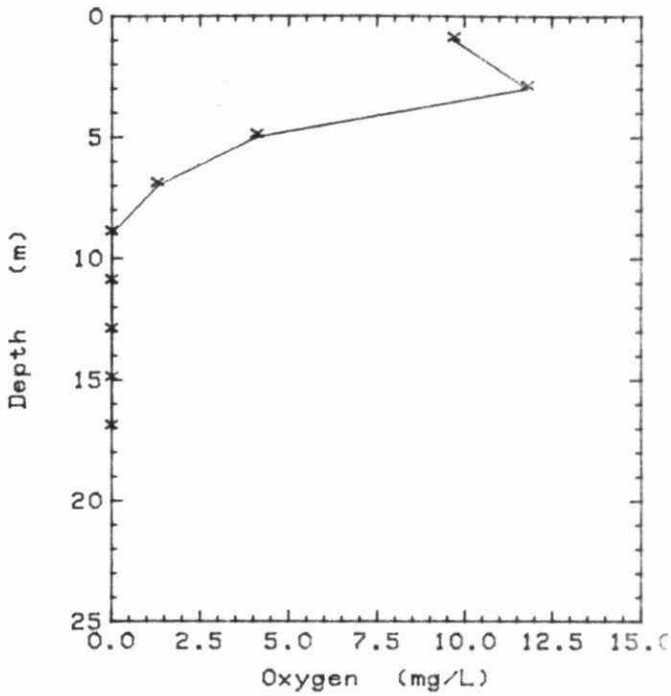



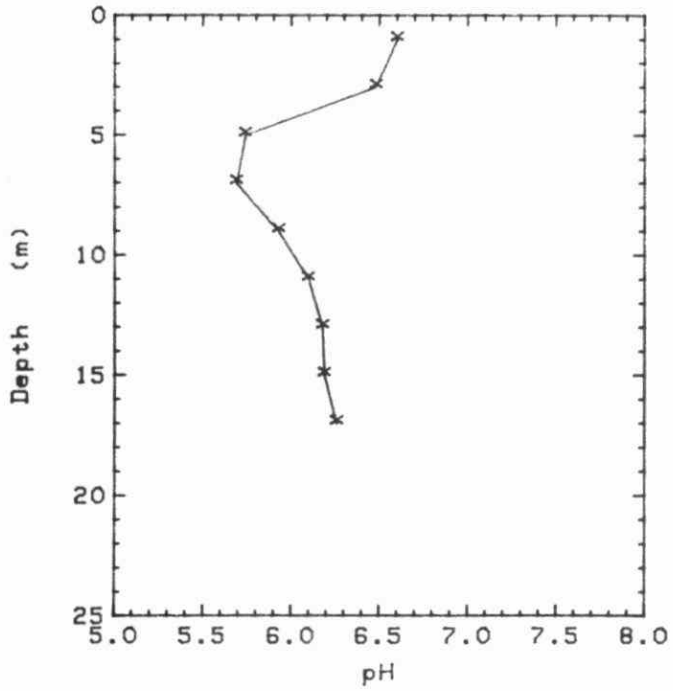



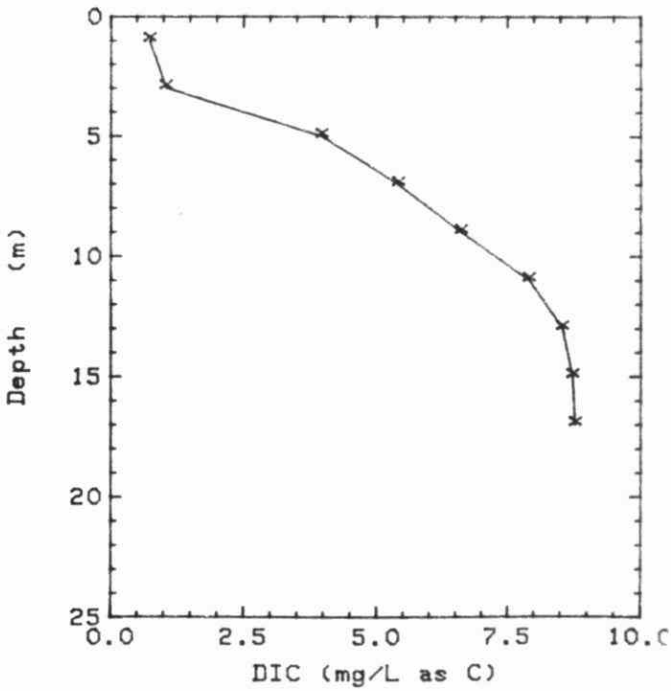



# POKER EAST 84.05.28

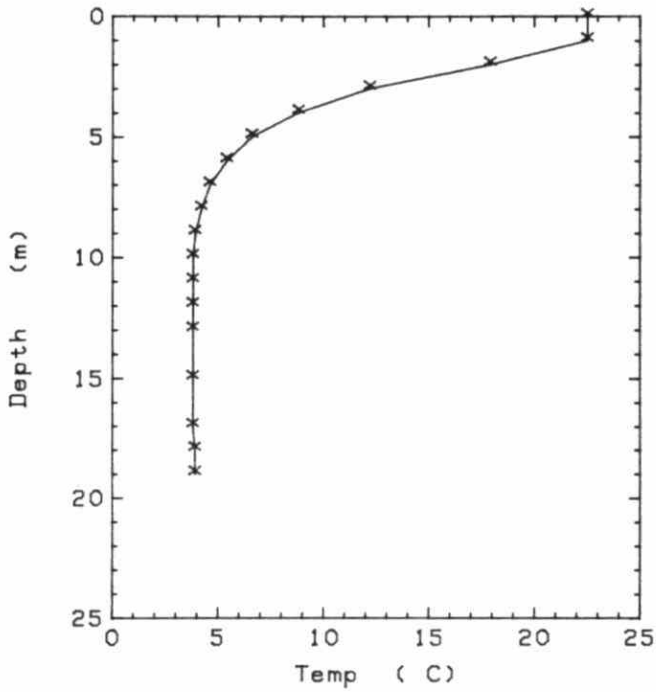


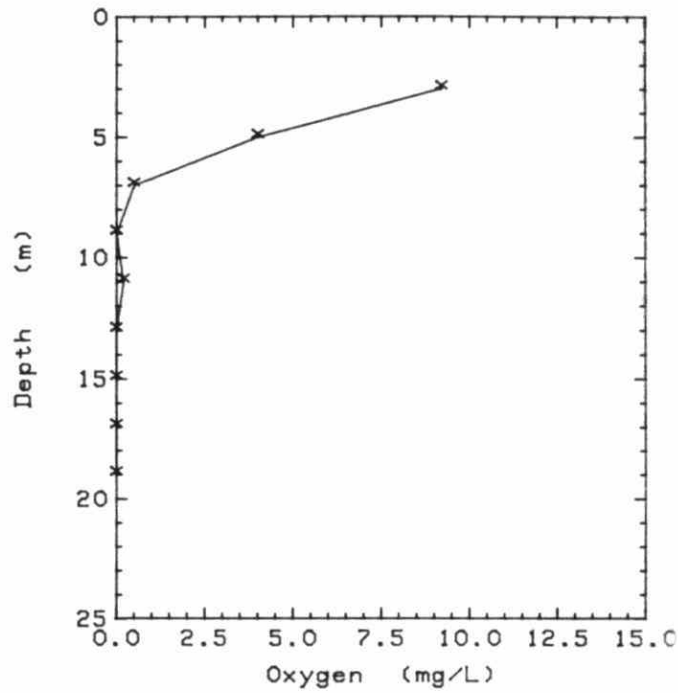



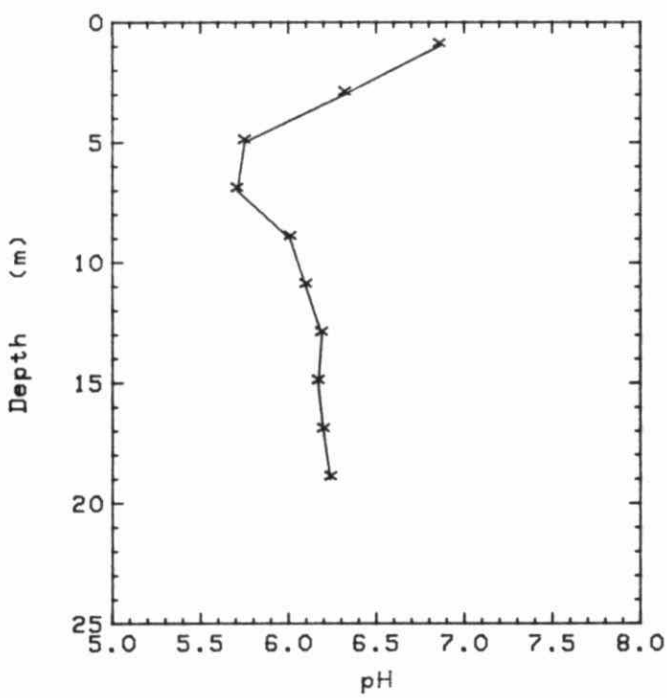



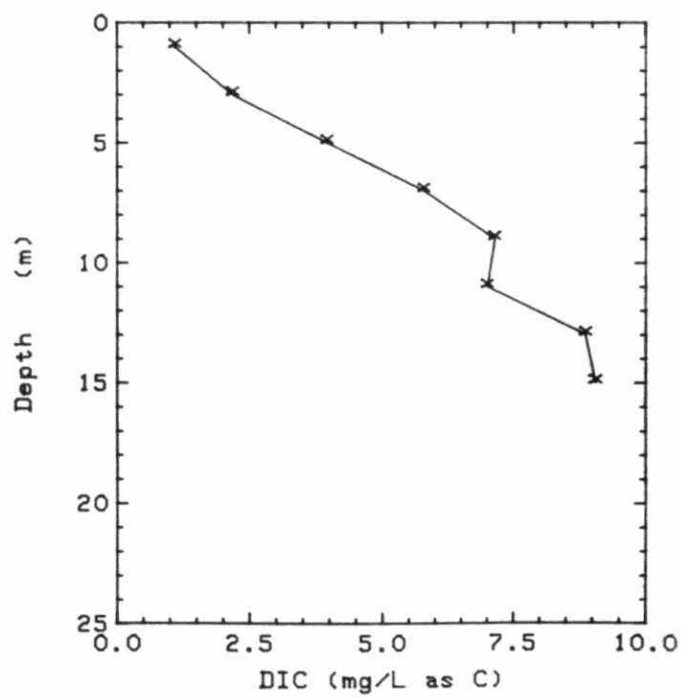



# POKER EAST 84.06.14

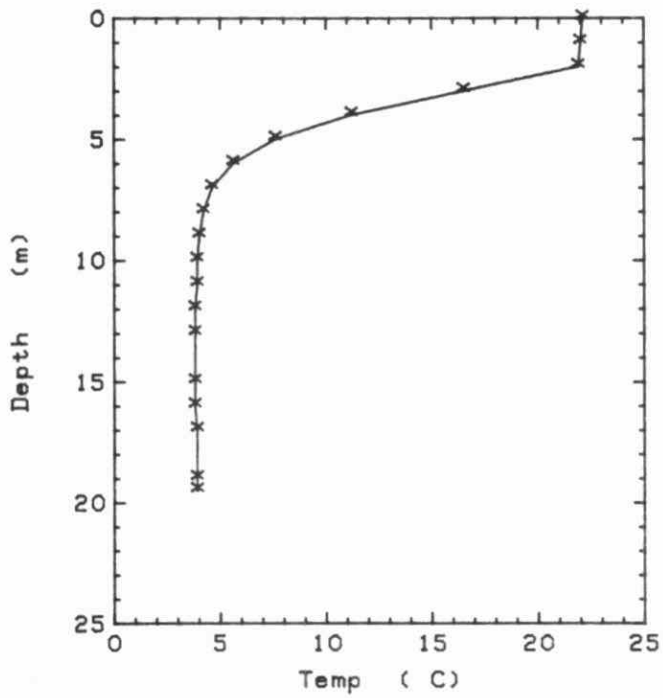


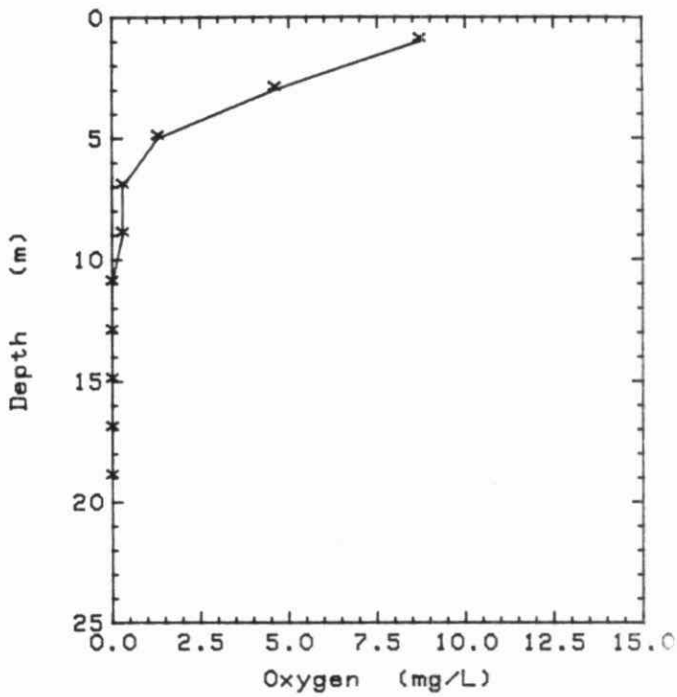



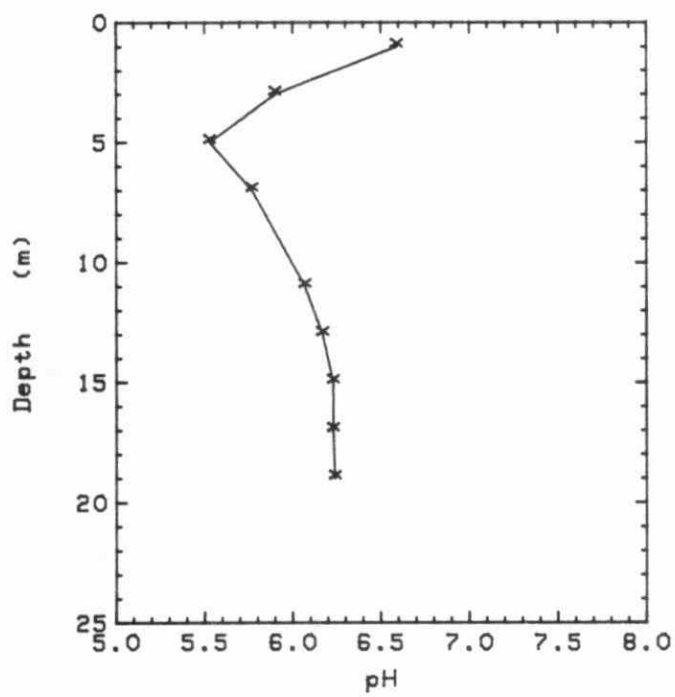



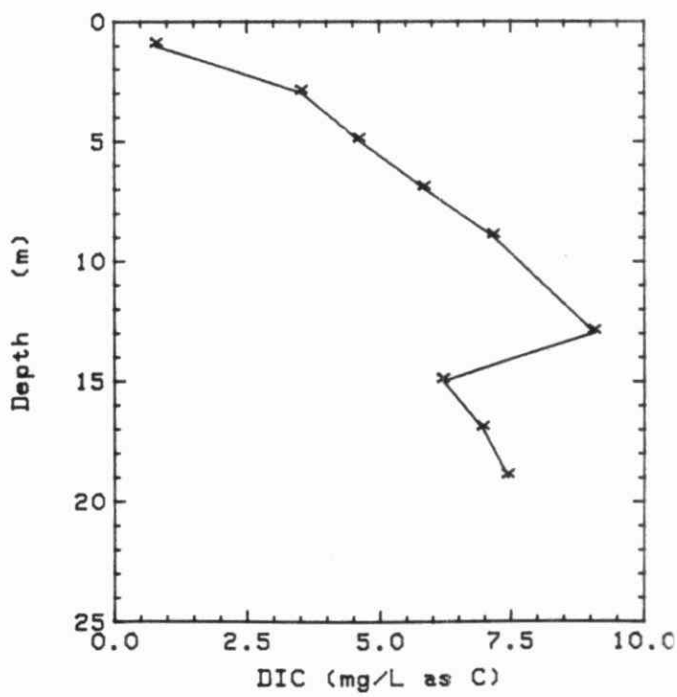



# POKER EAST 84.07.19

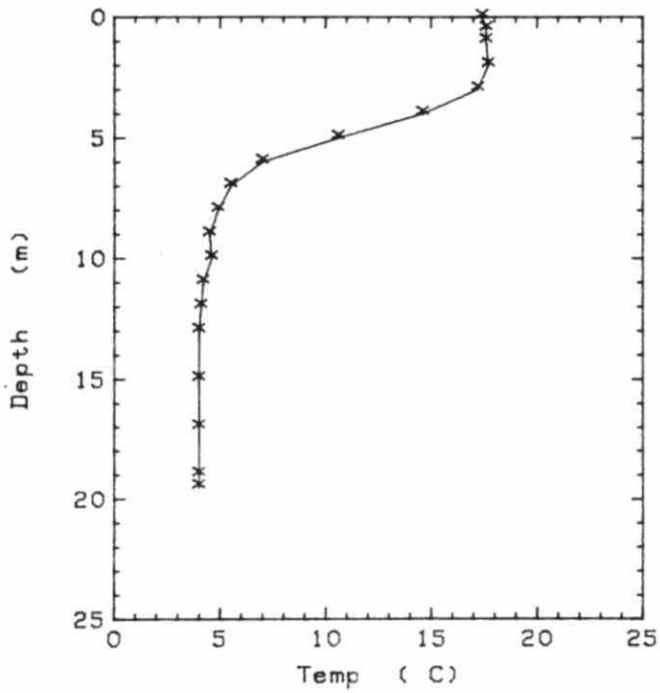


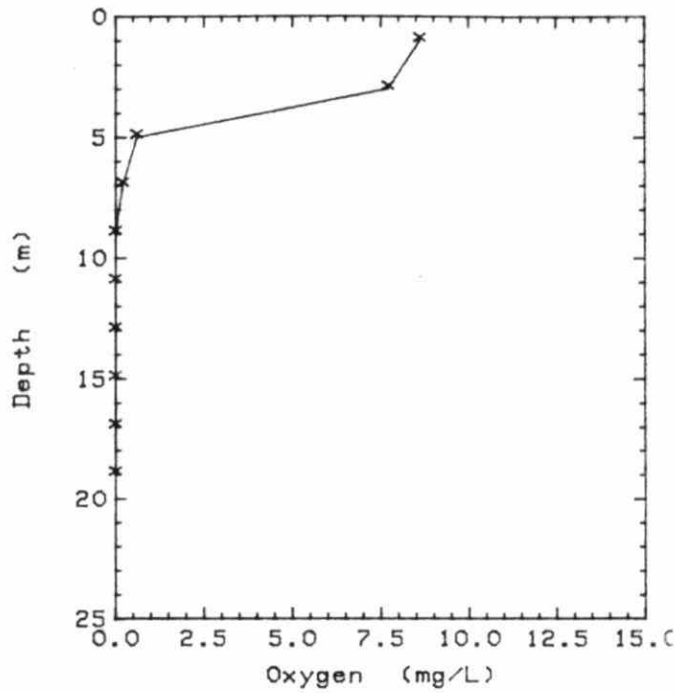



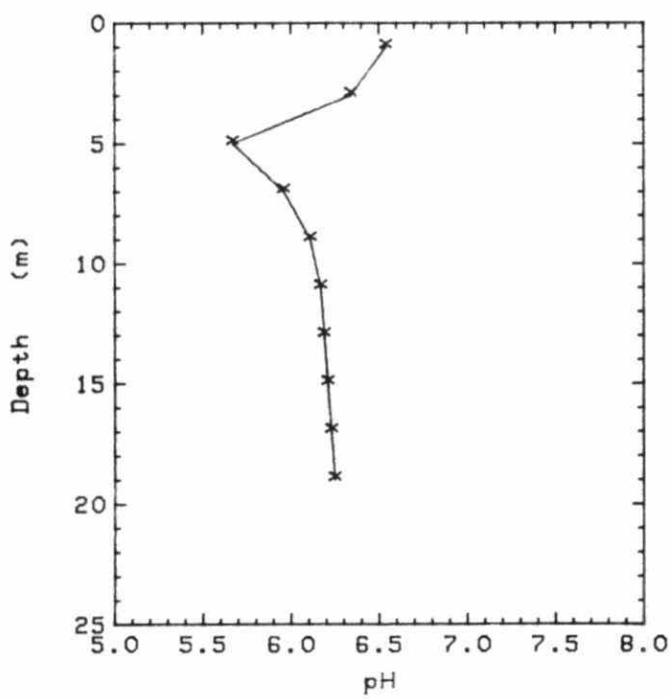



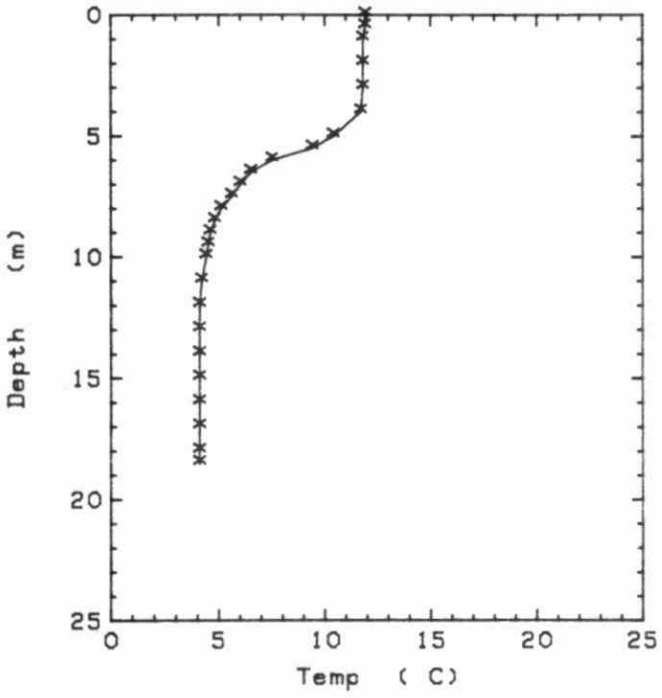
# POKER EAST 84.09.11

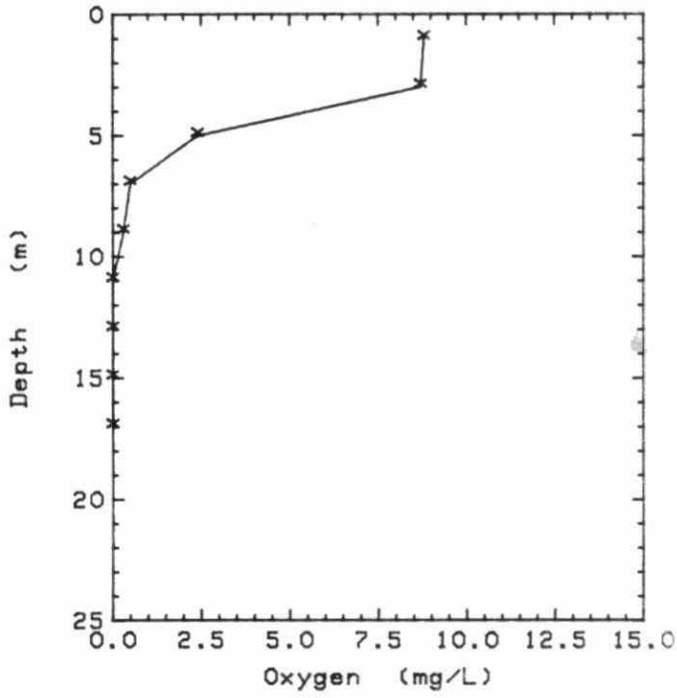


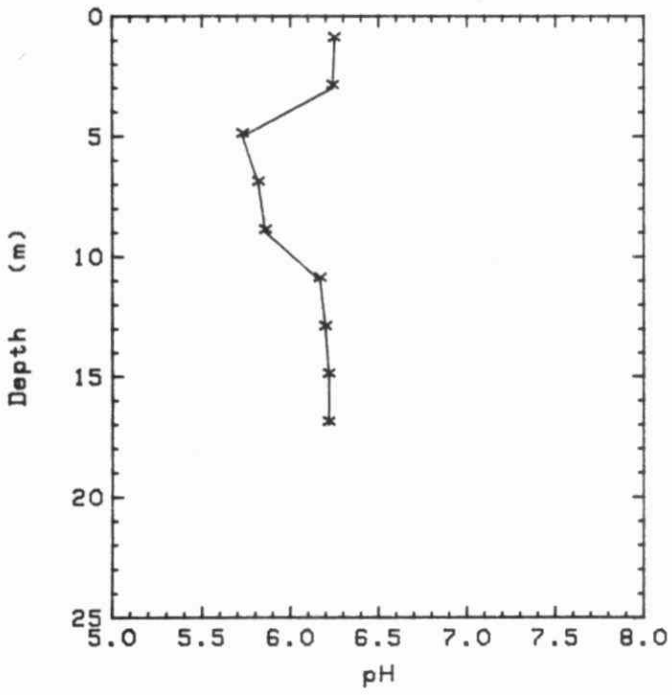



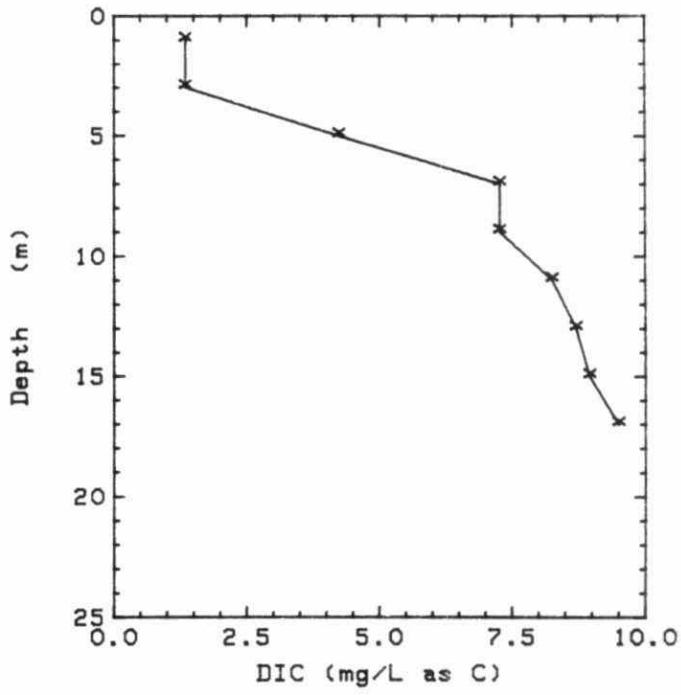



# POKER EAST 84.10.22

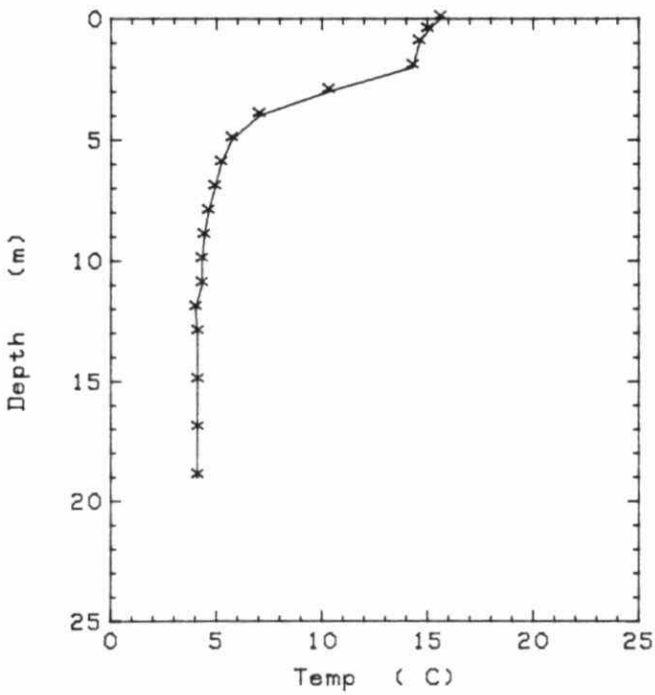


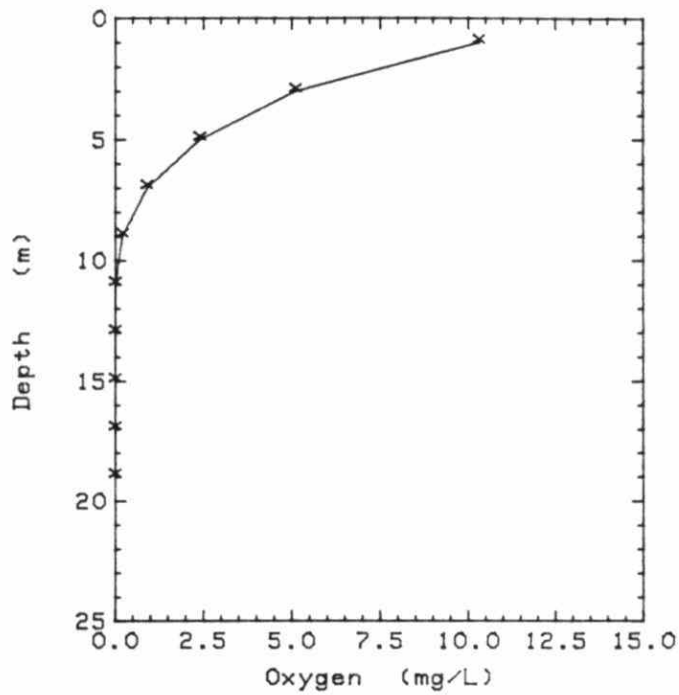



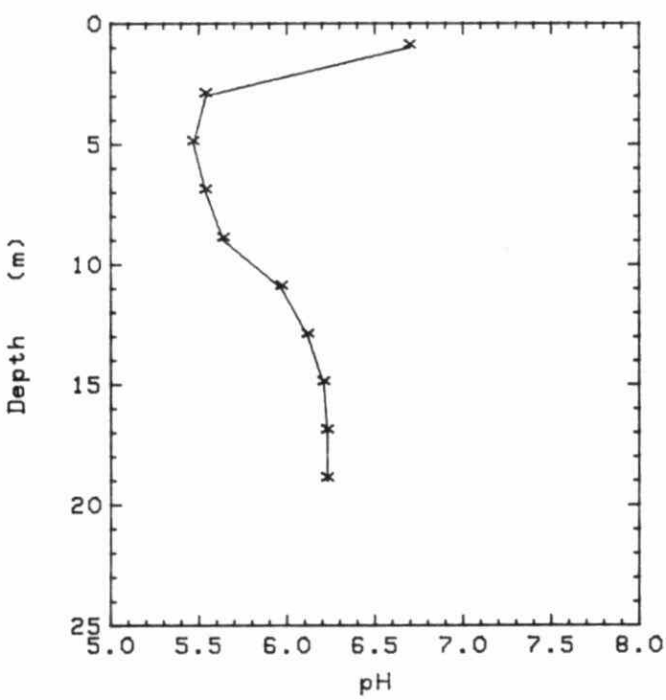



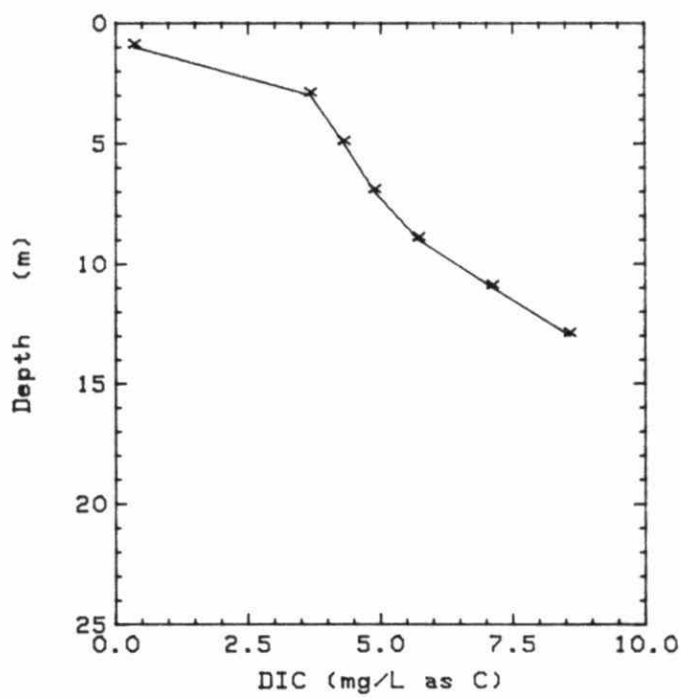



# POKER EAST 85.05.22

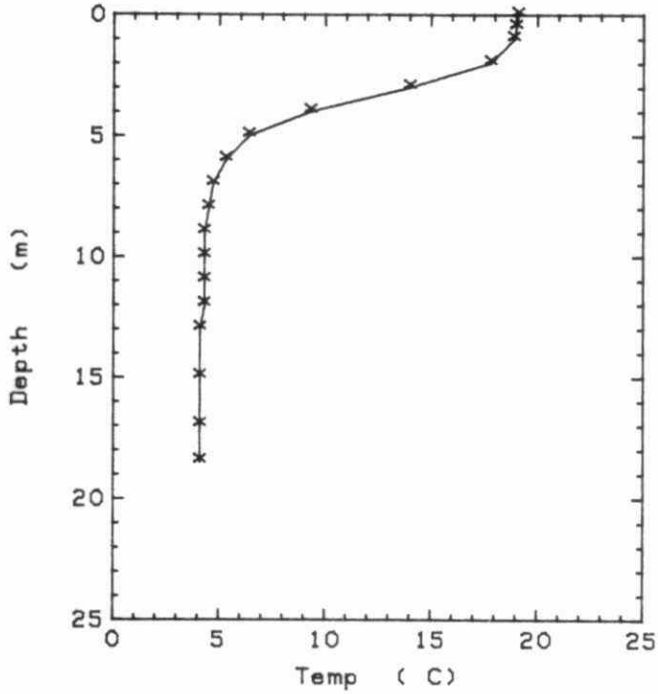


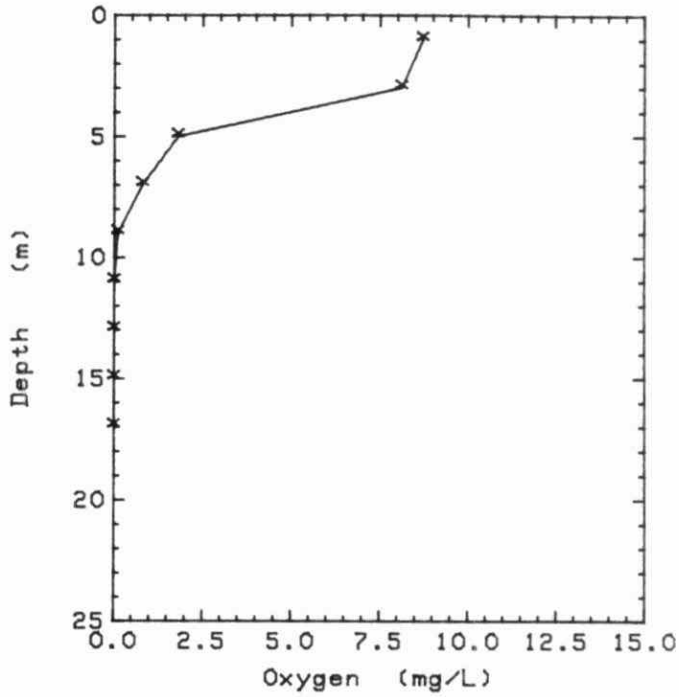



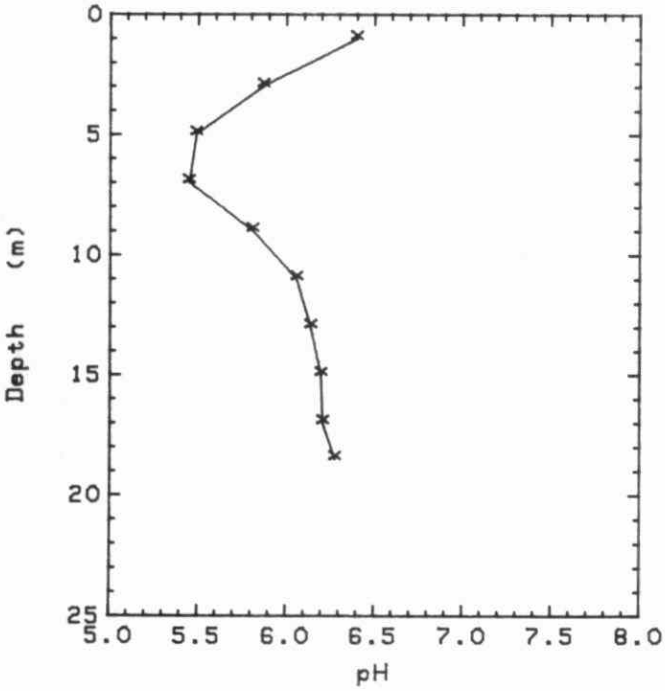



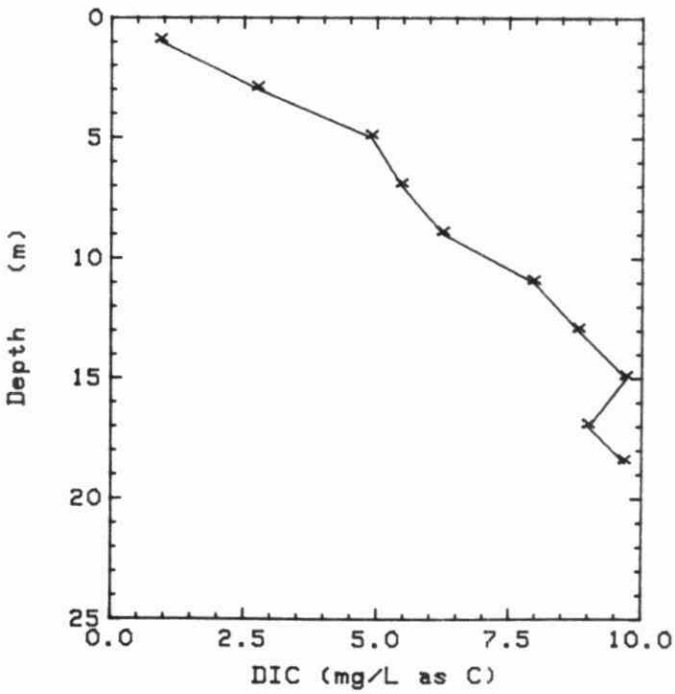



# POKER EAST 85.06.27

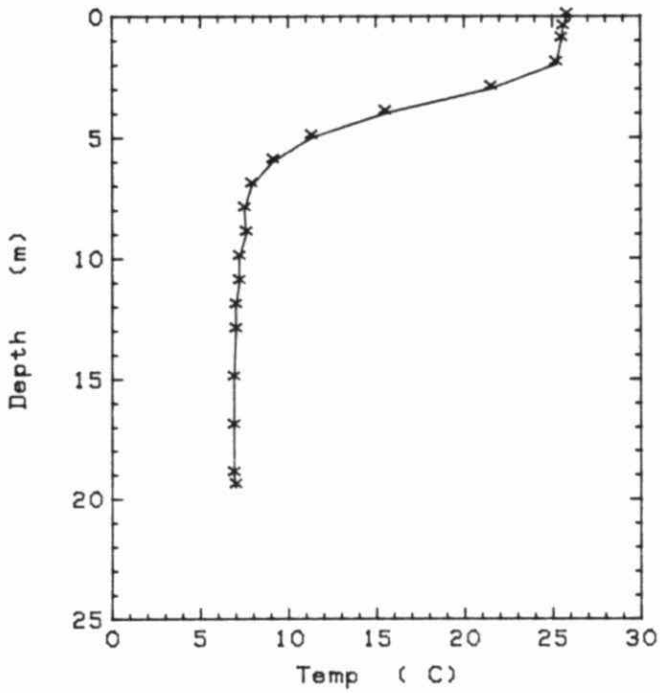


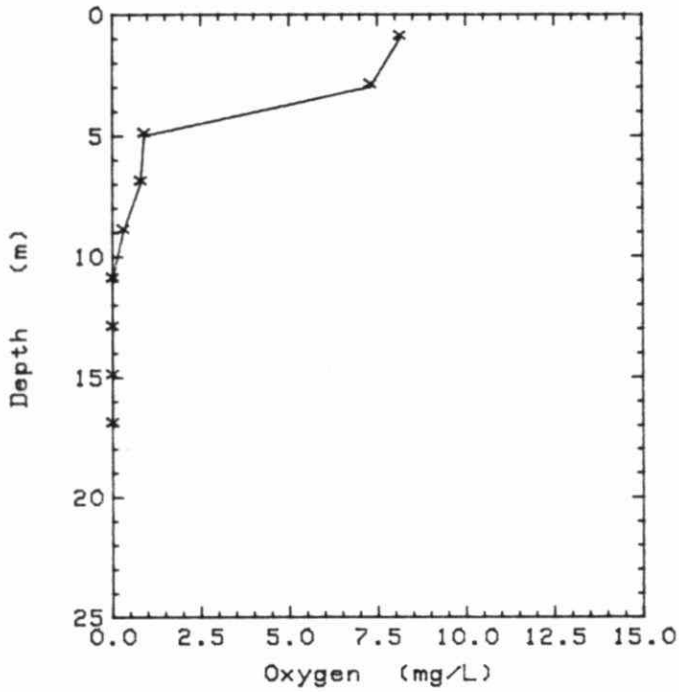



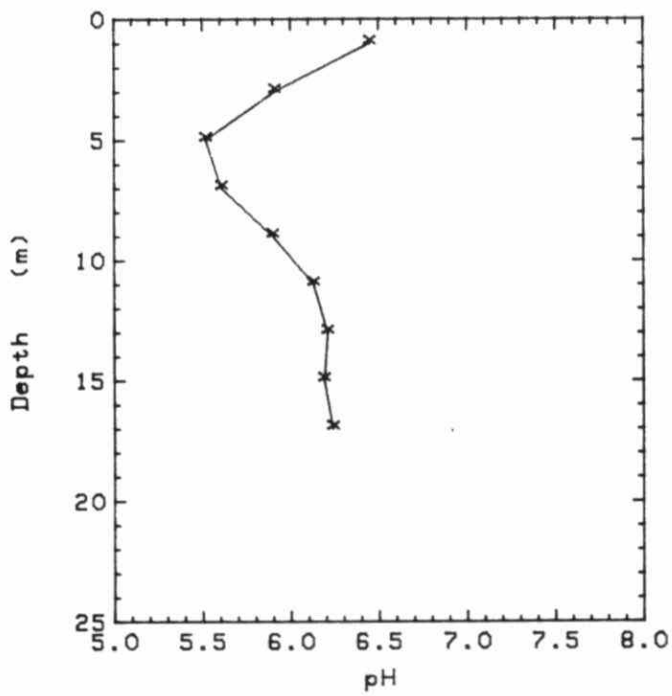



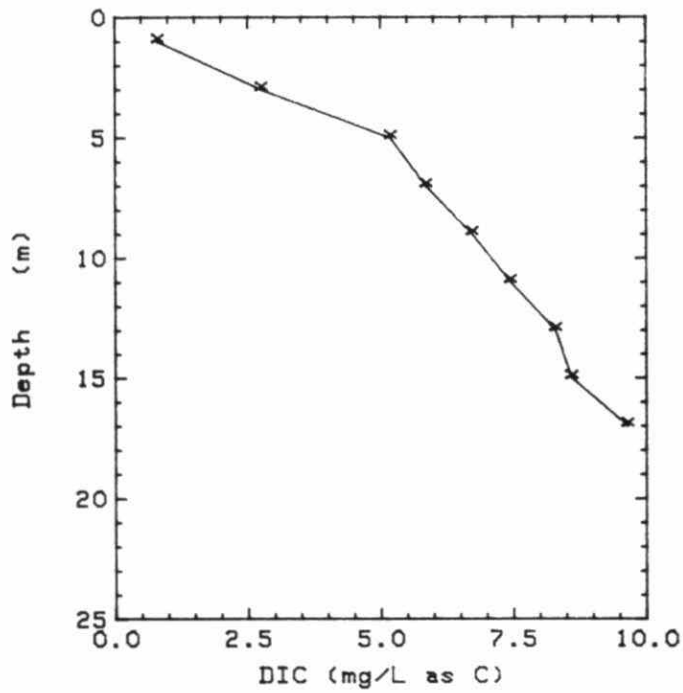



# POKER EAST 85.07.25

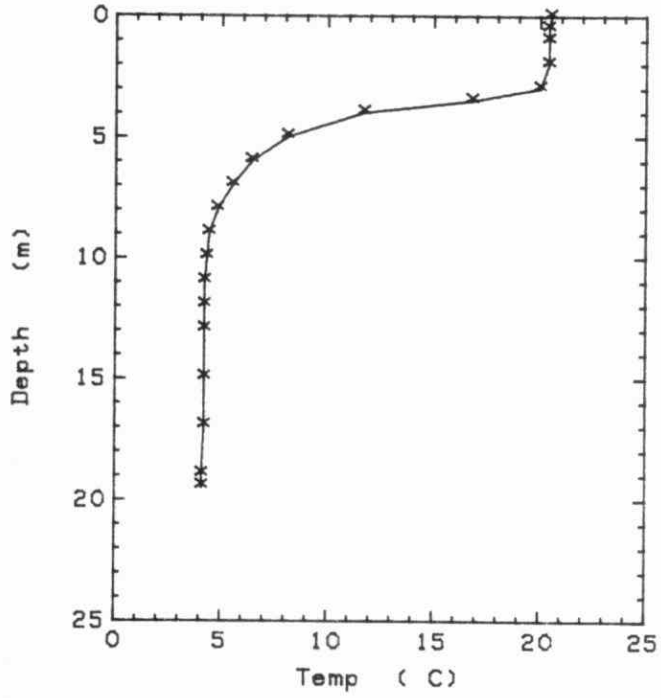


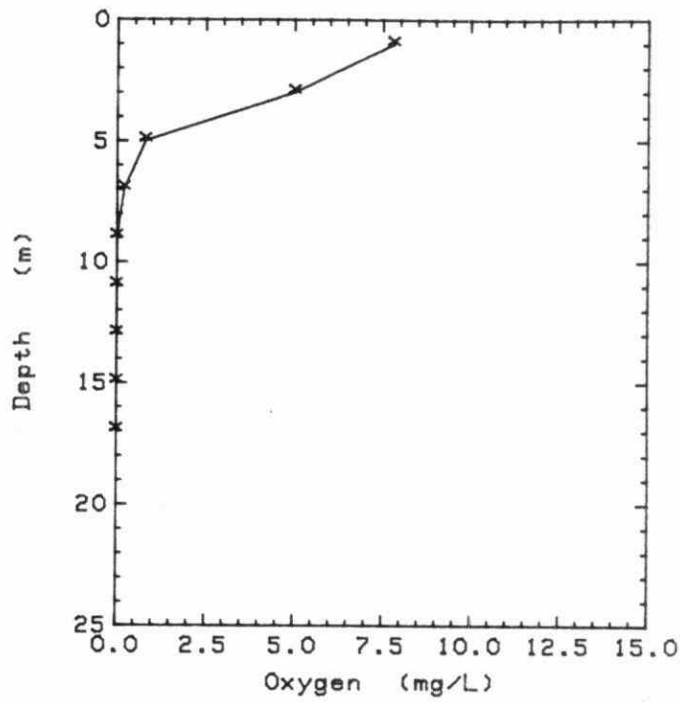



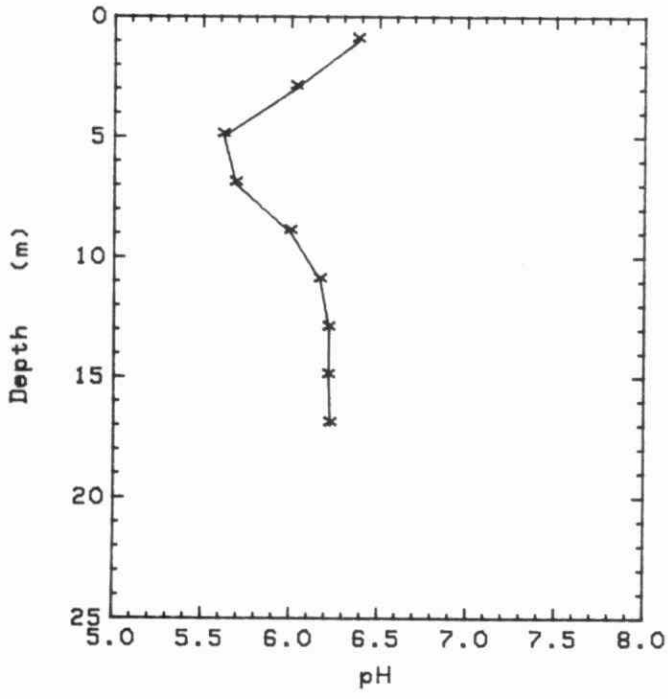



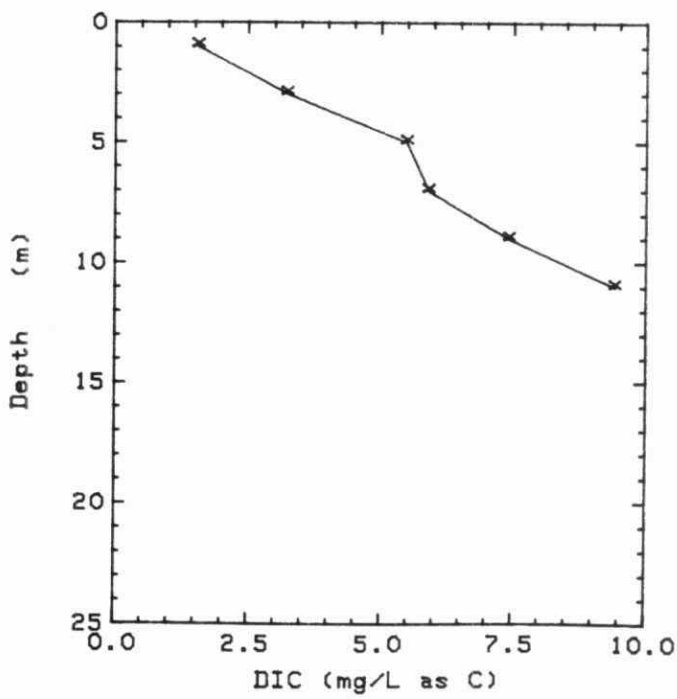



# POKER EAST 85.08.22



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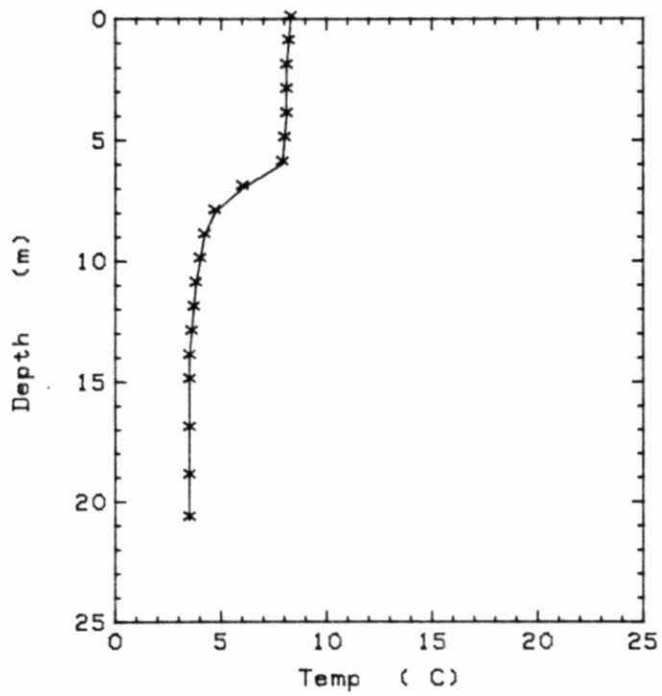


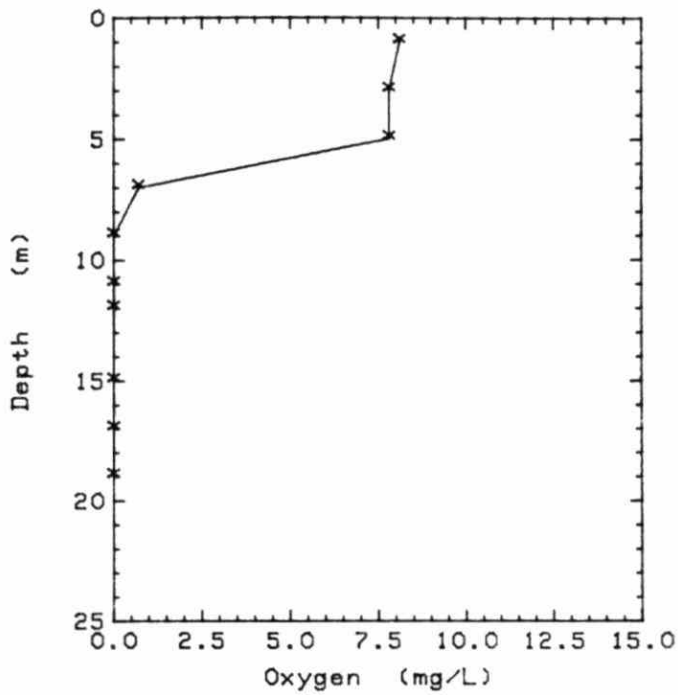


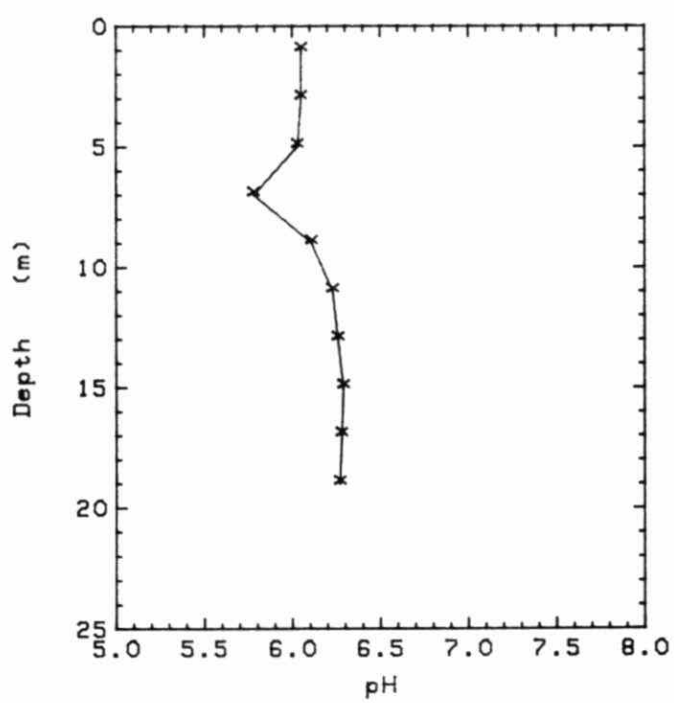


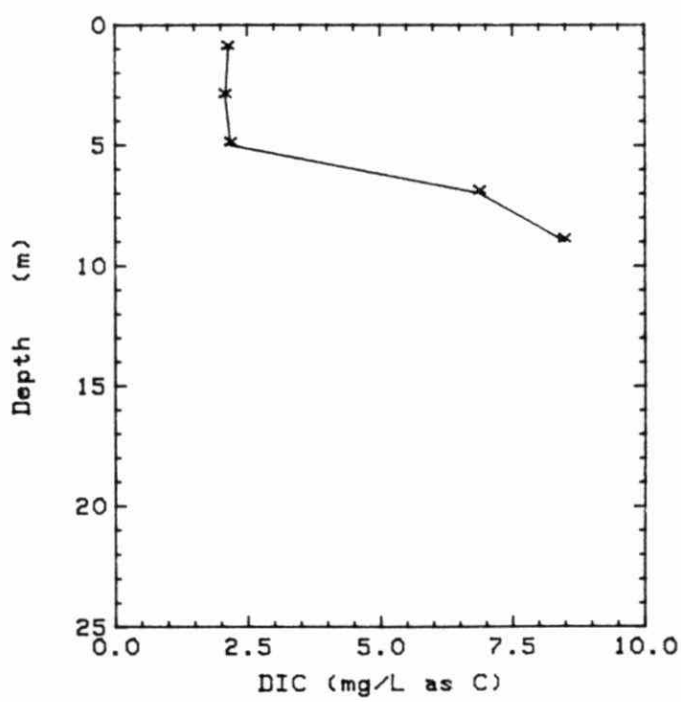

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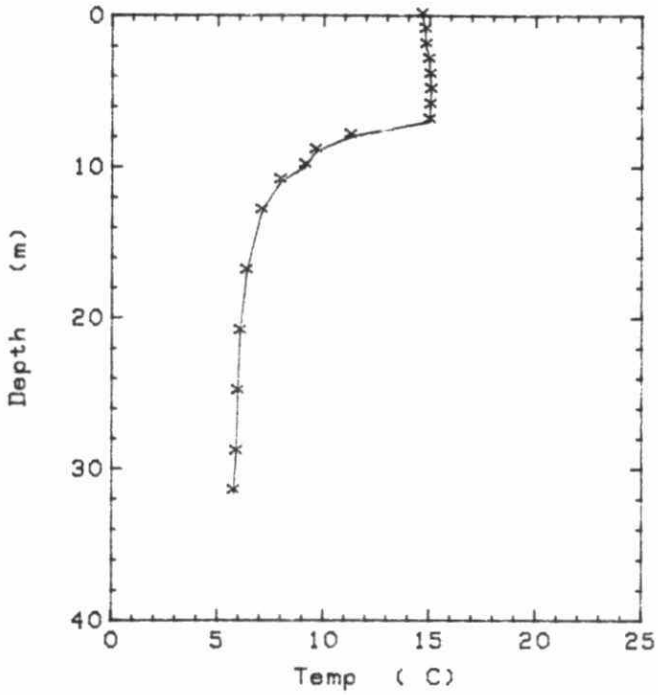


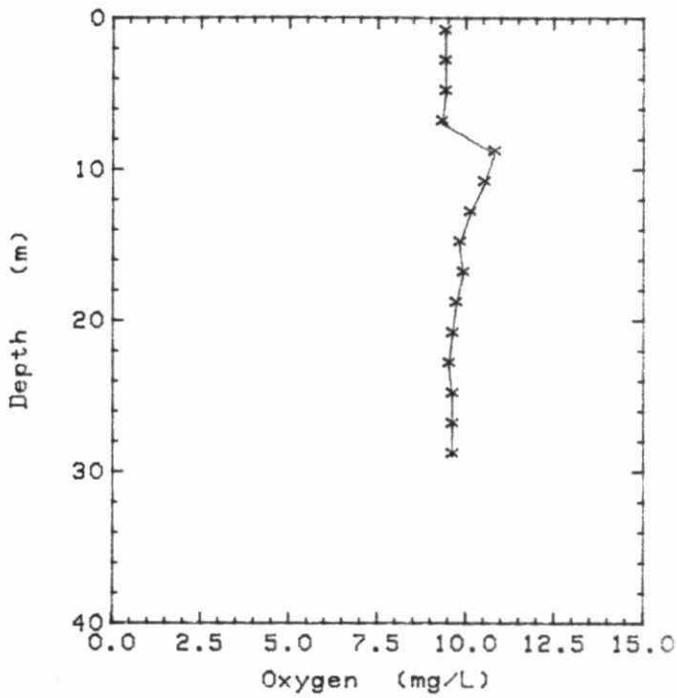


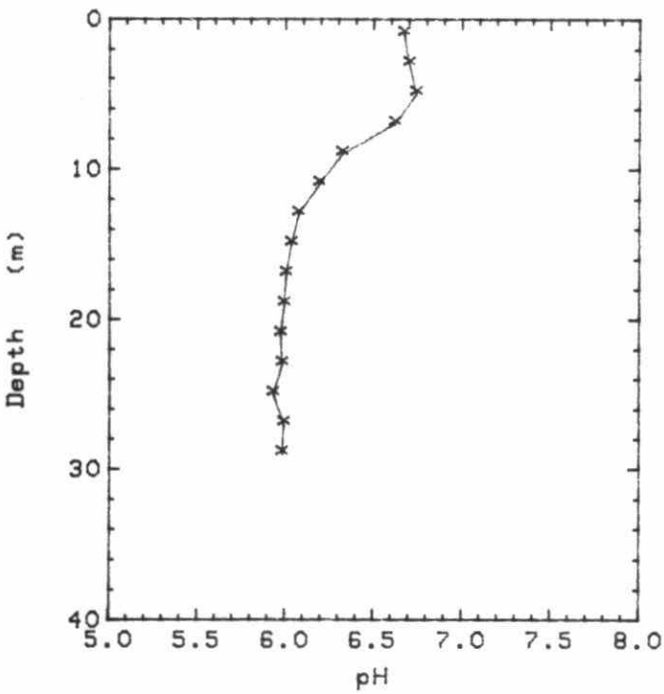


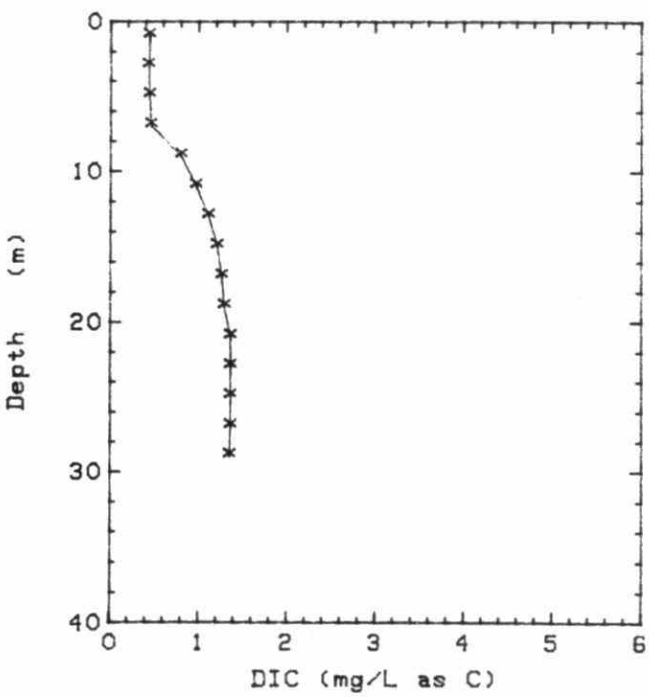

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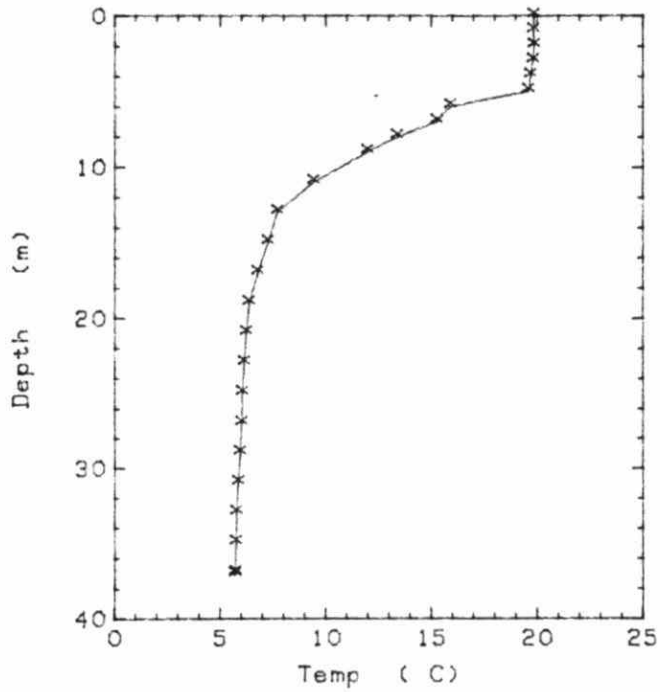


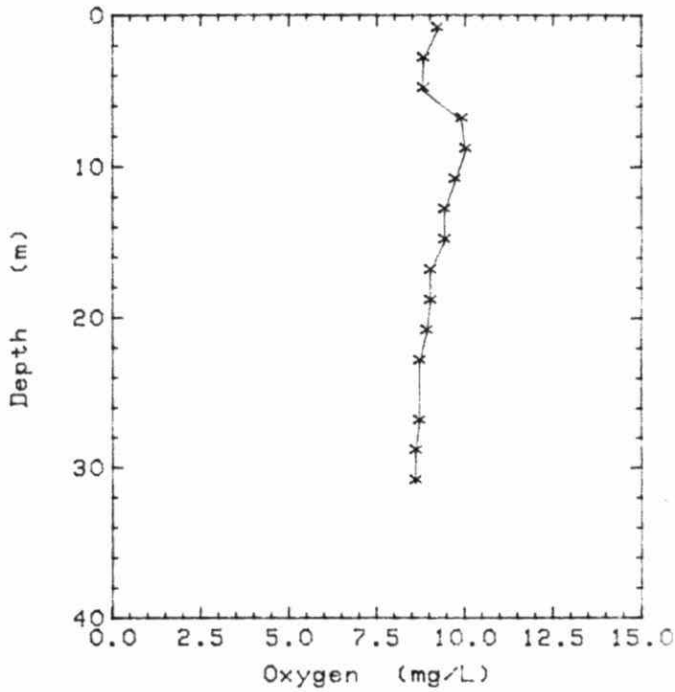


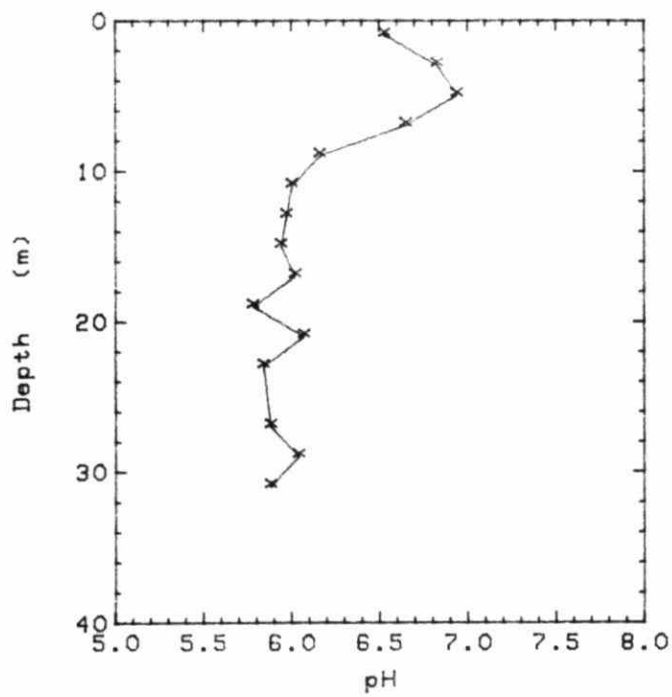

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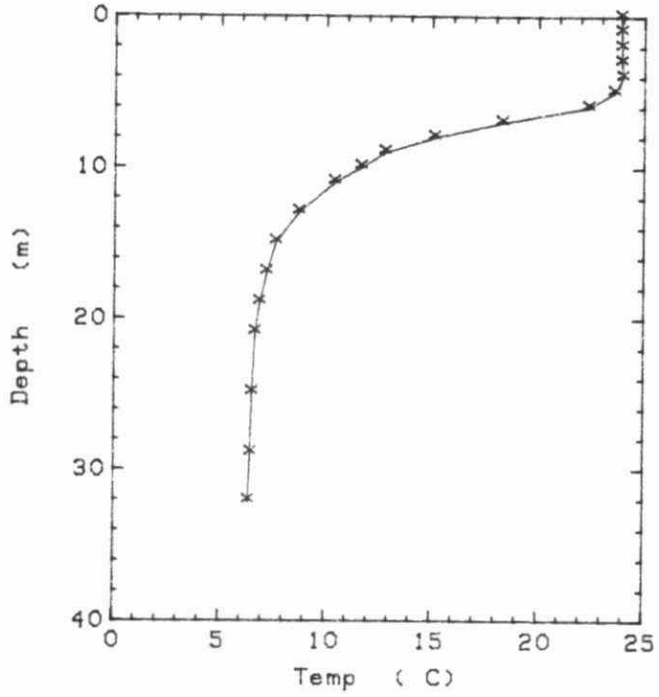


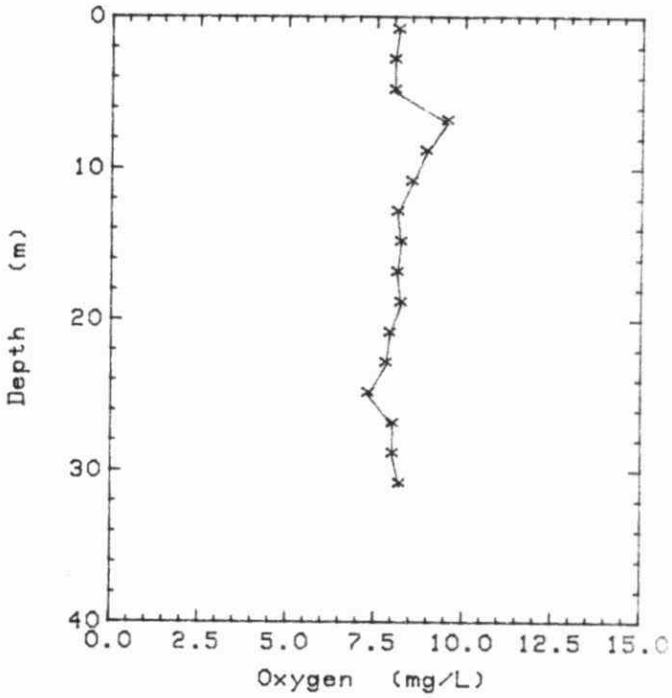


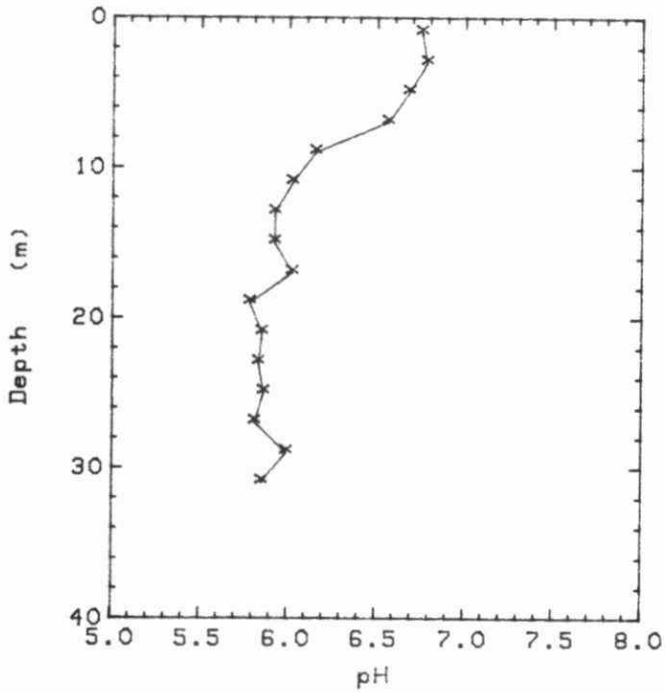

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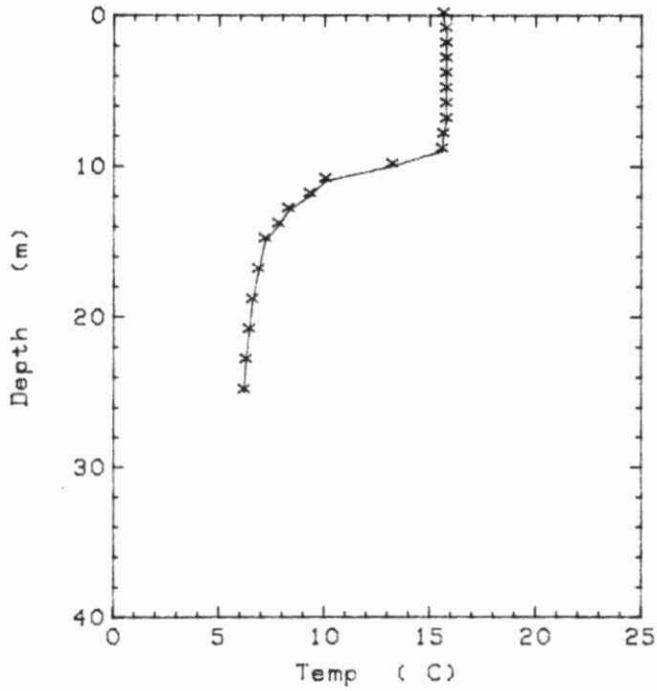


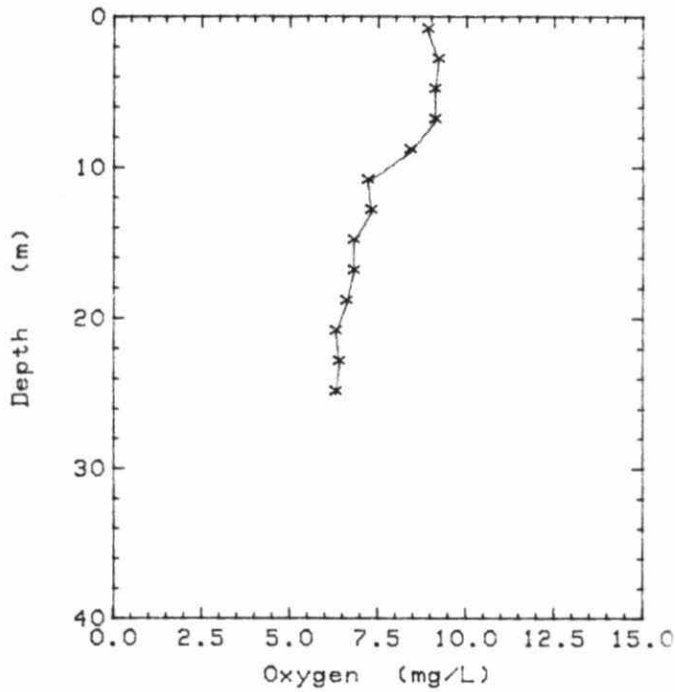


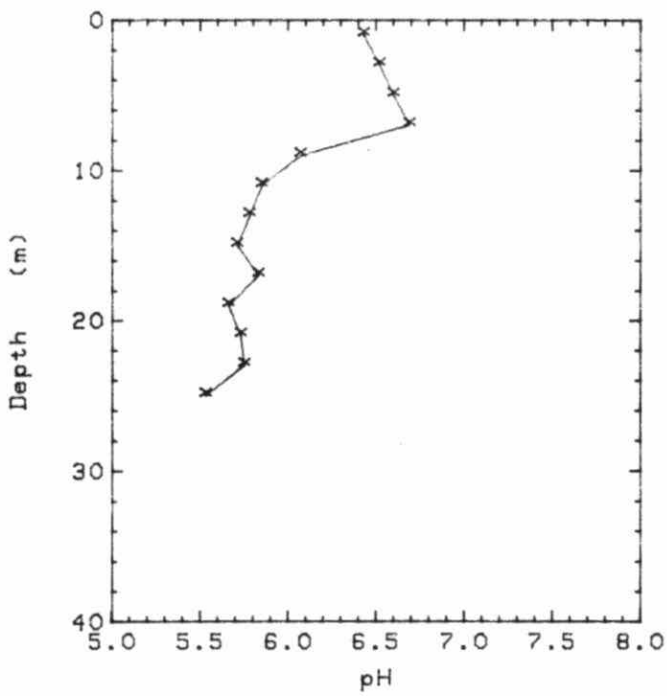

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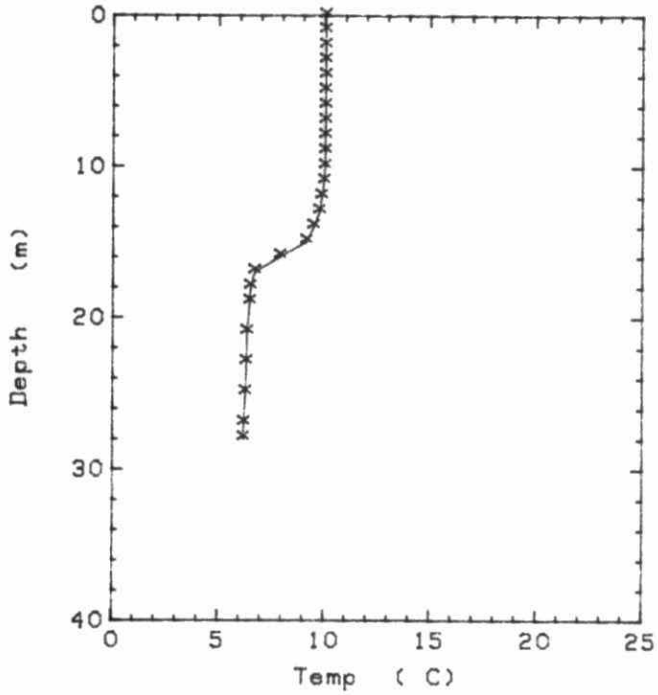


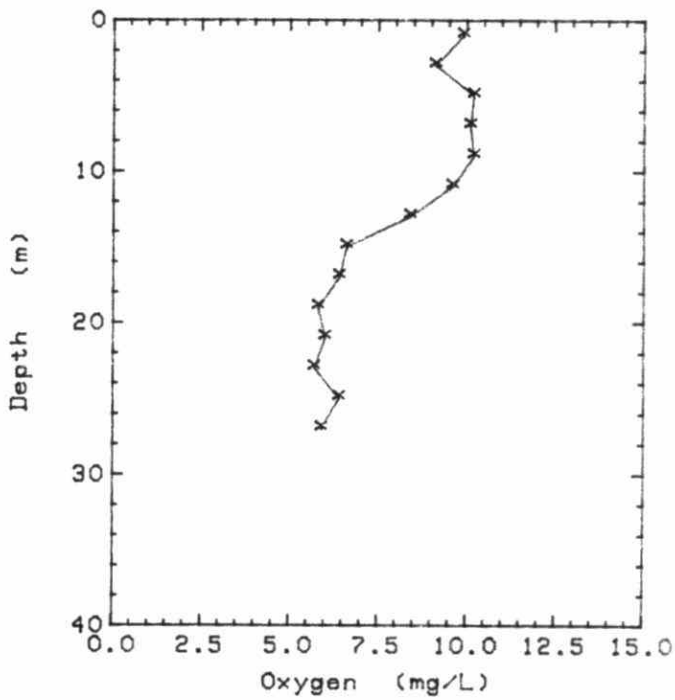


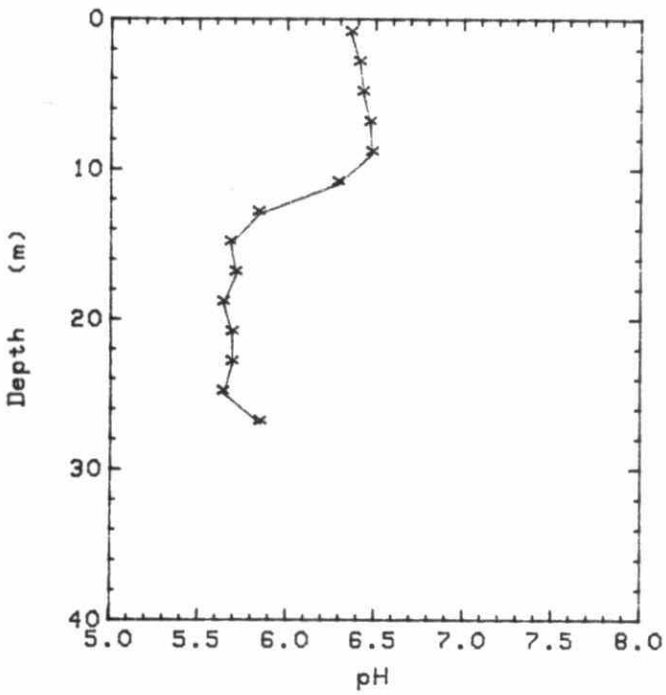

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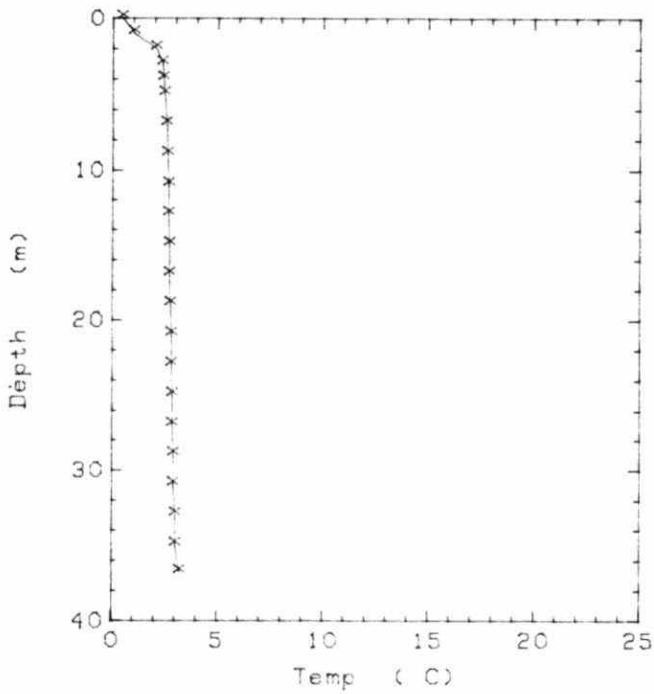


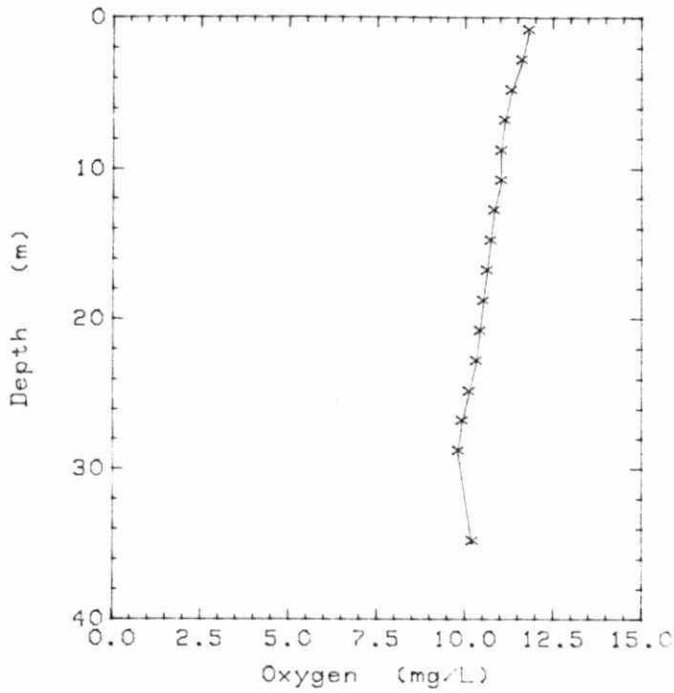


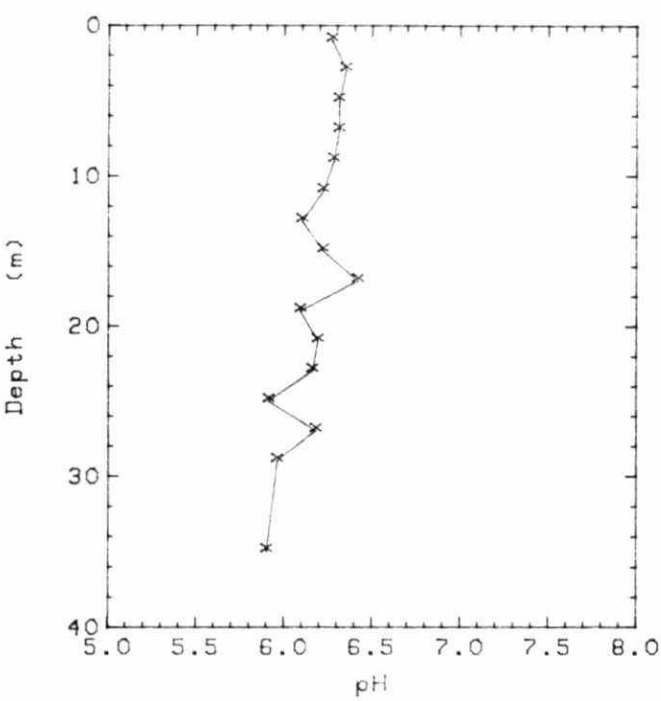

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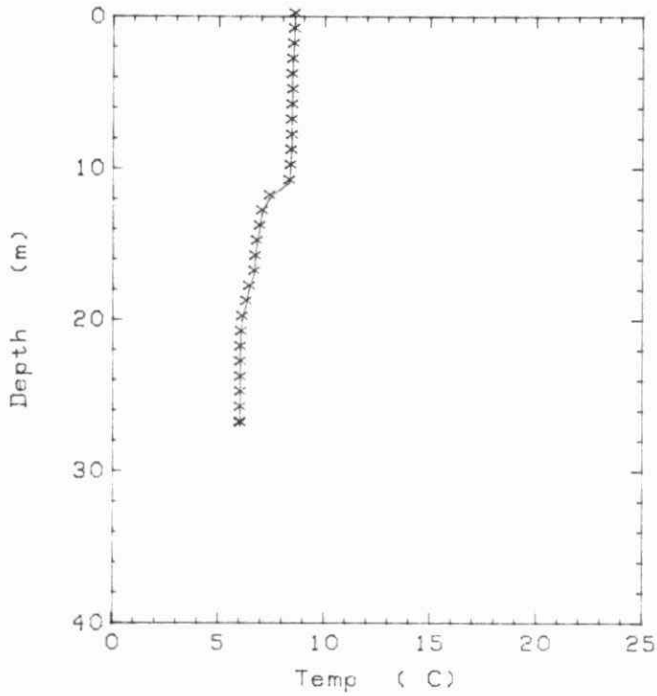


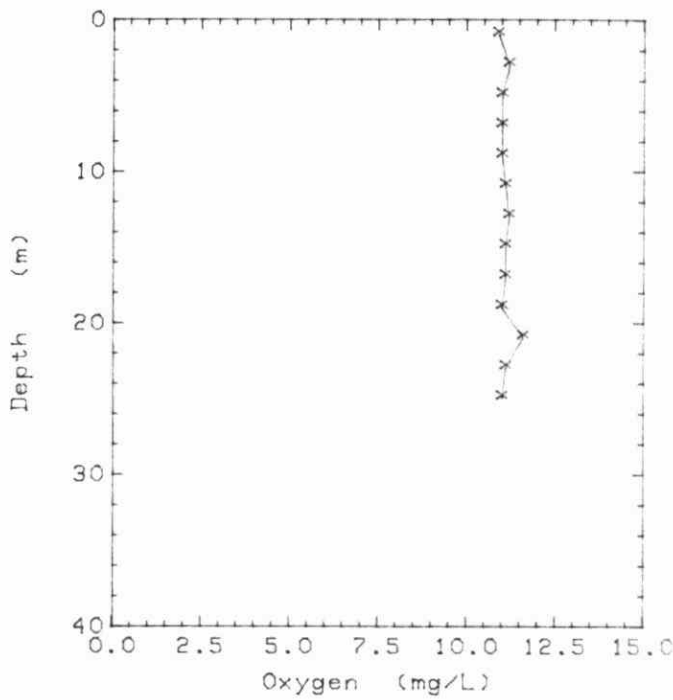


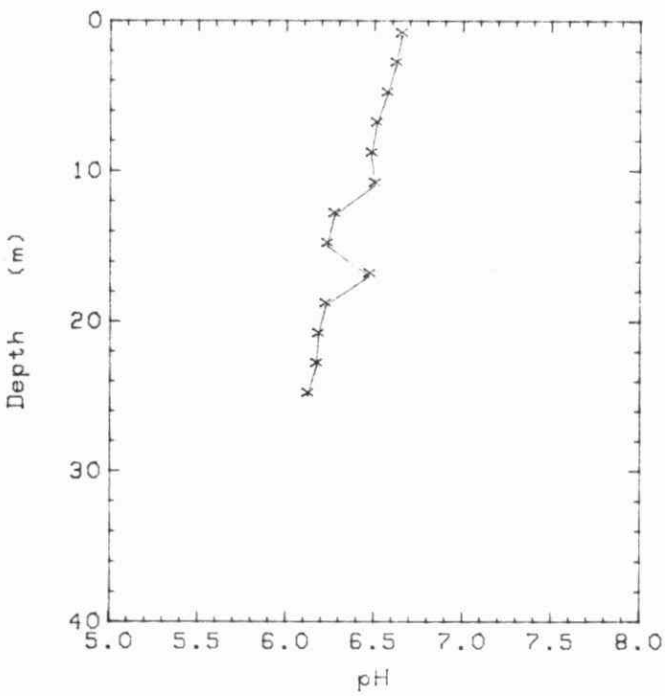


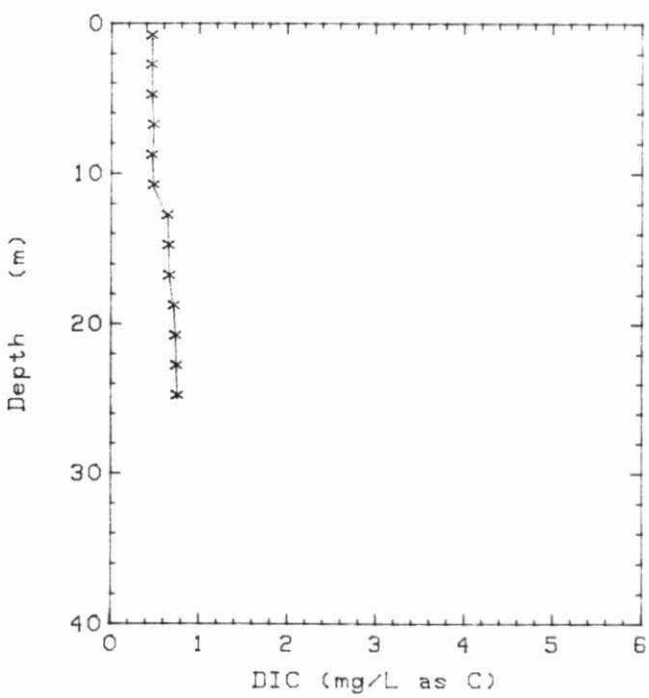

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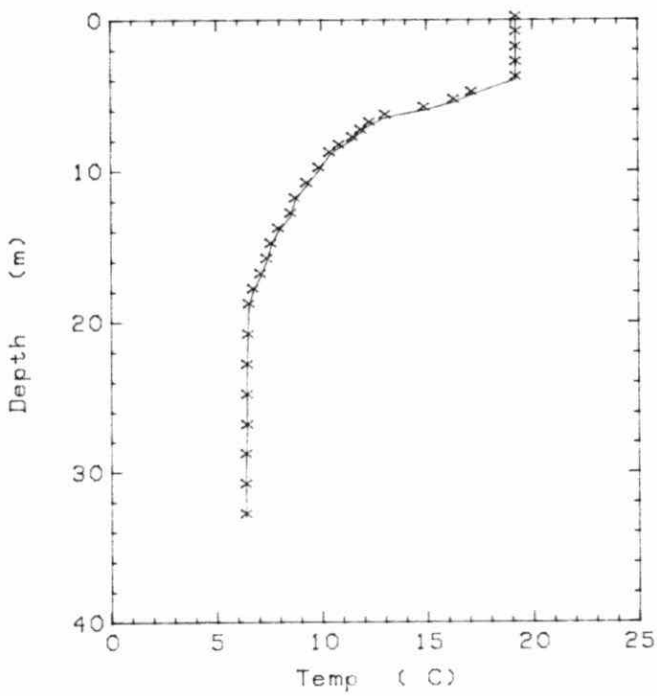


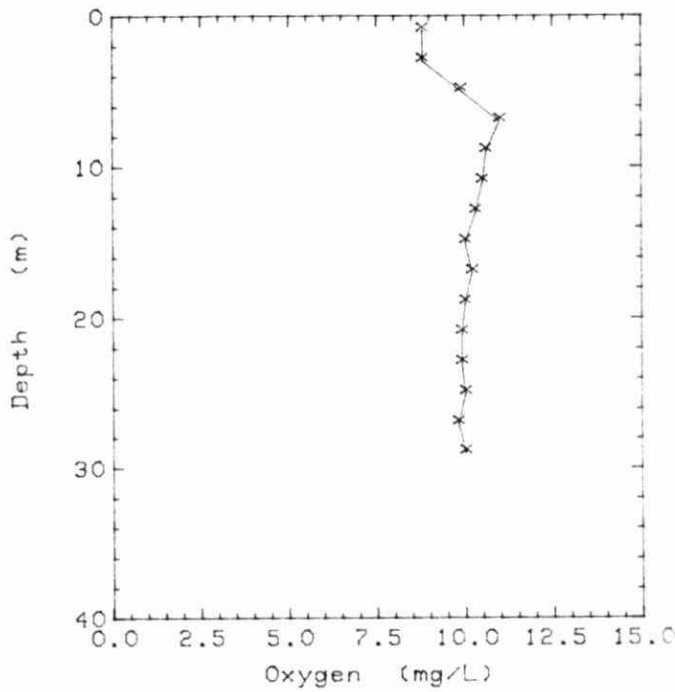


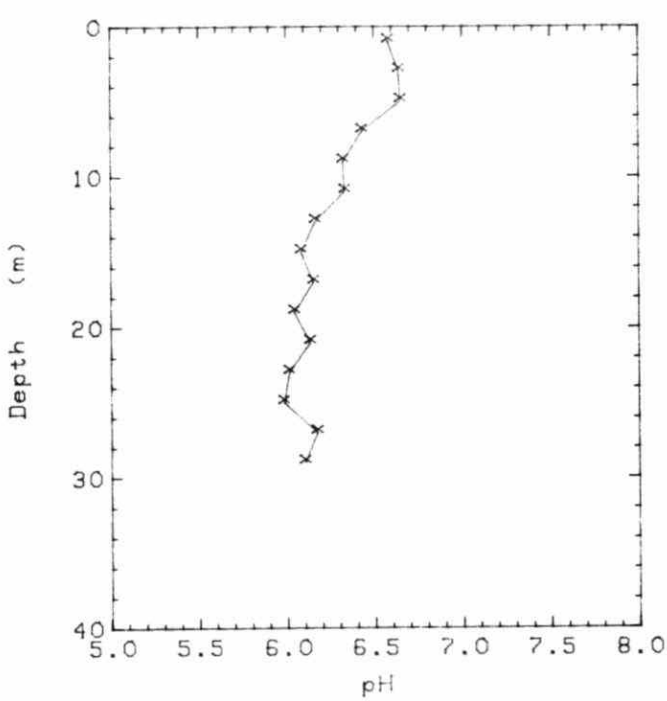


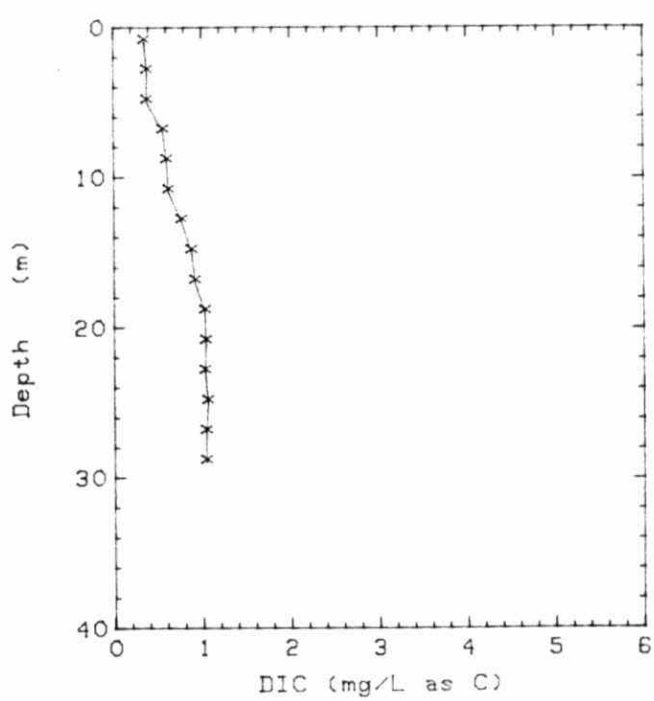

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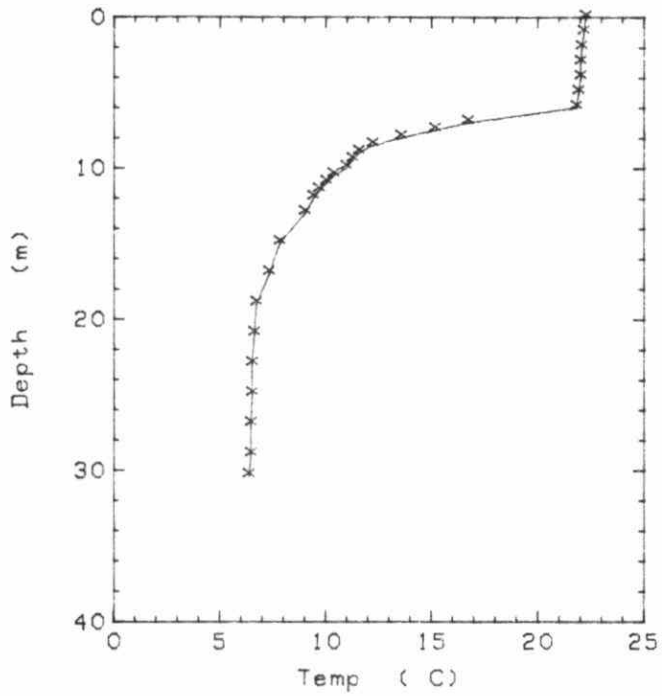


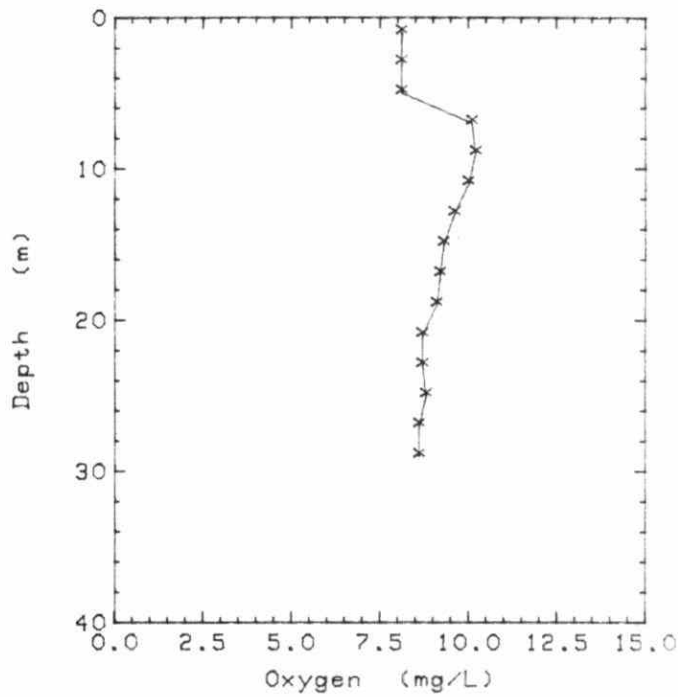


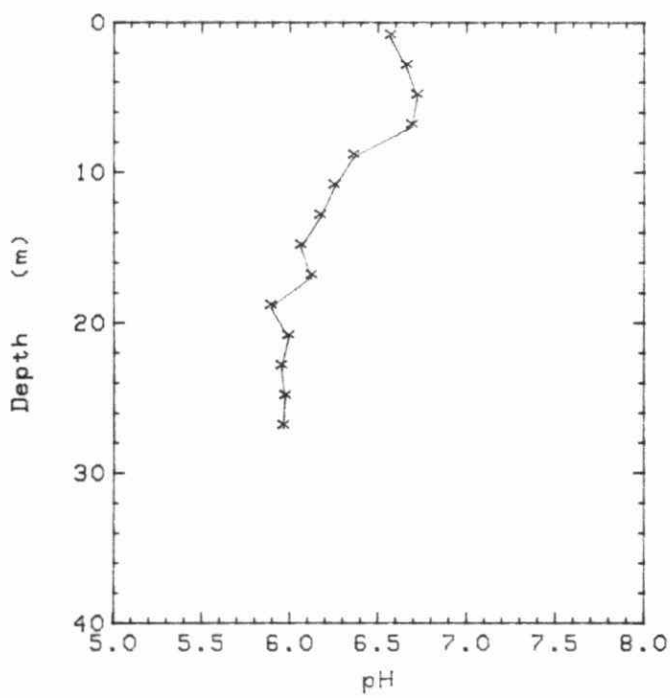


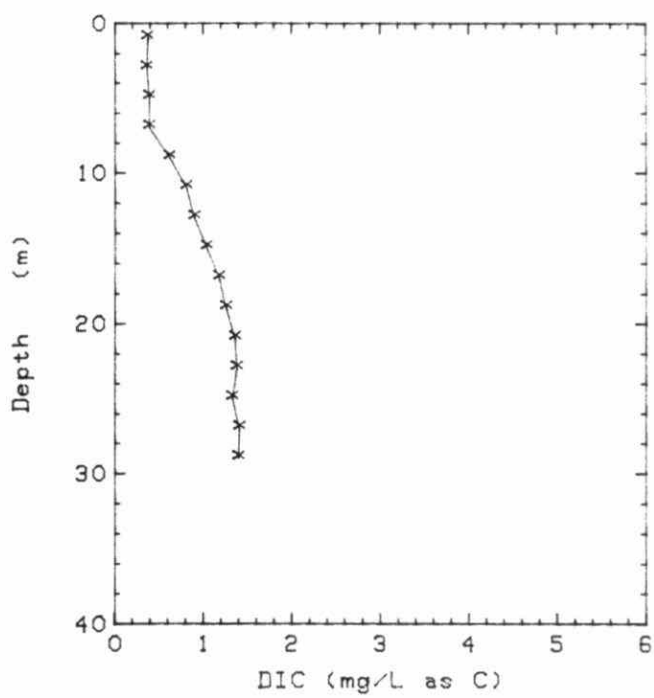

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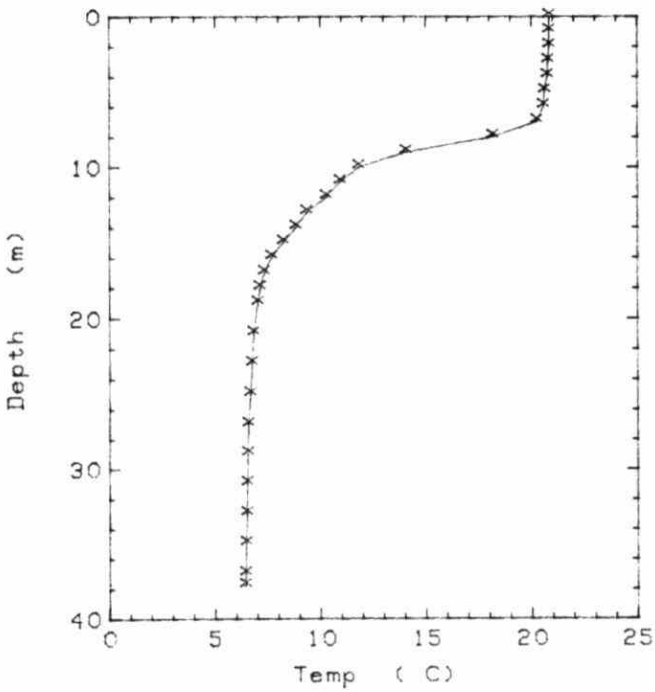


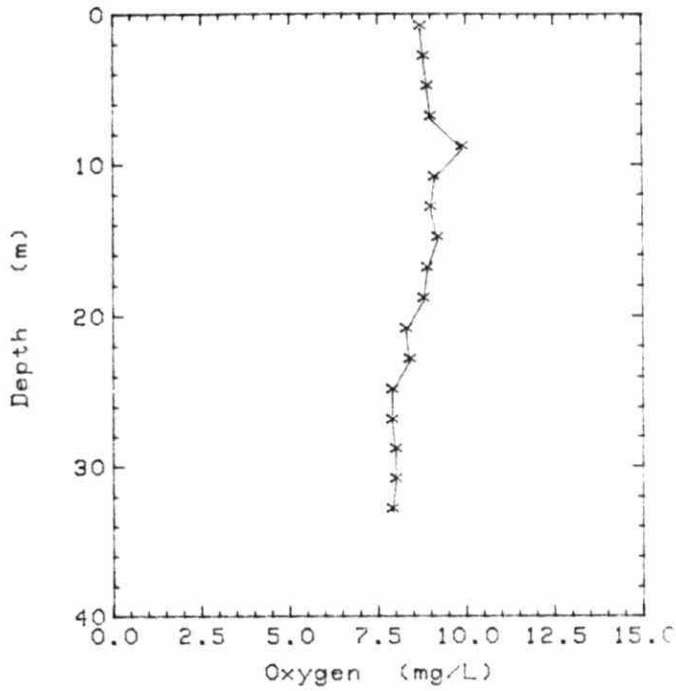


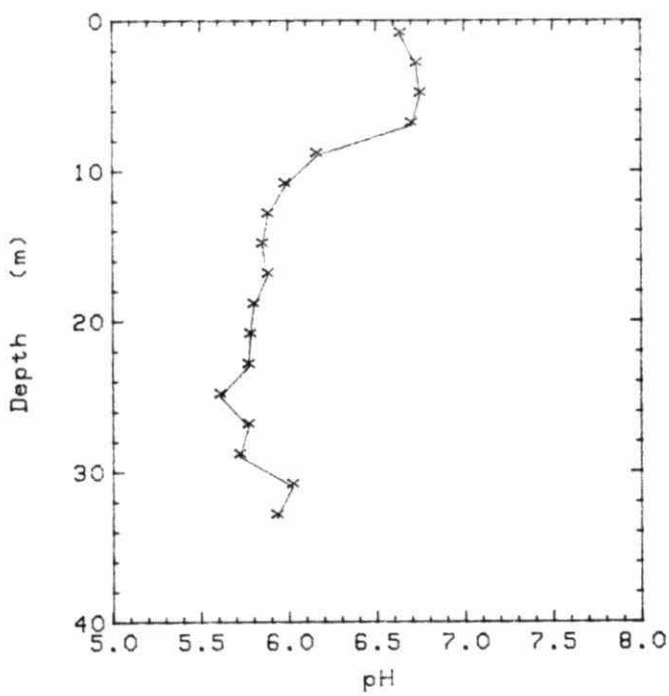


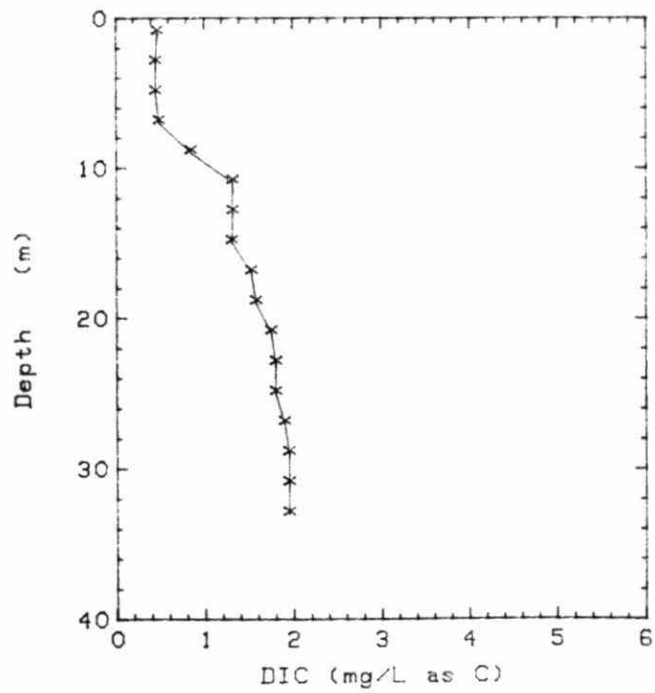

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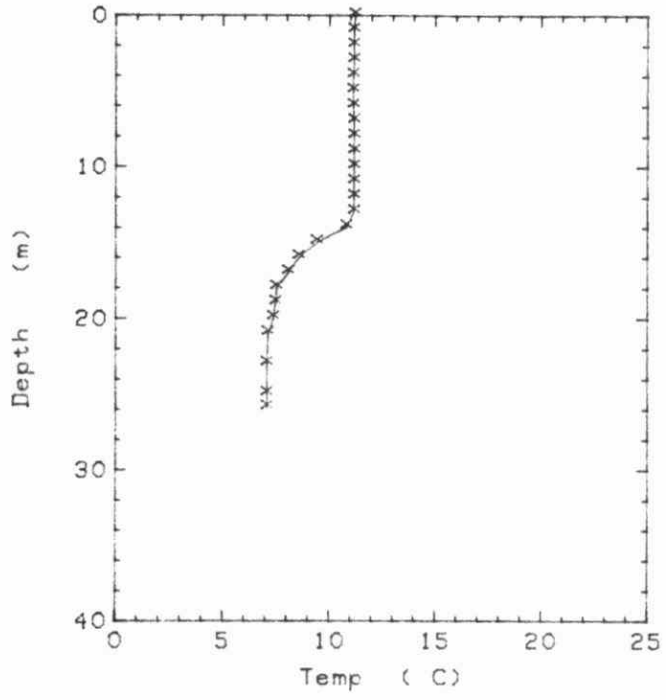


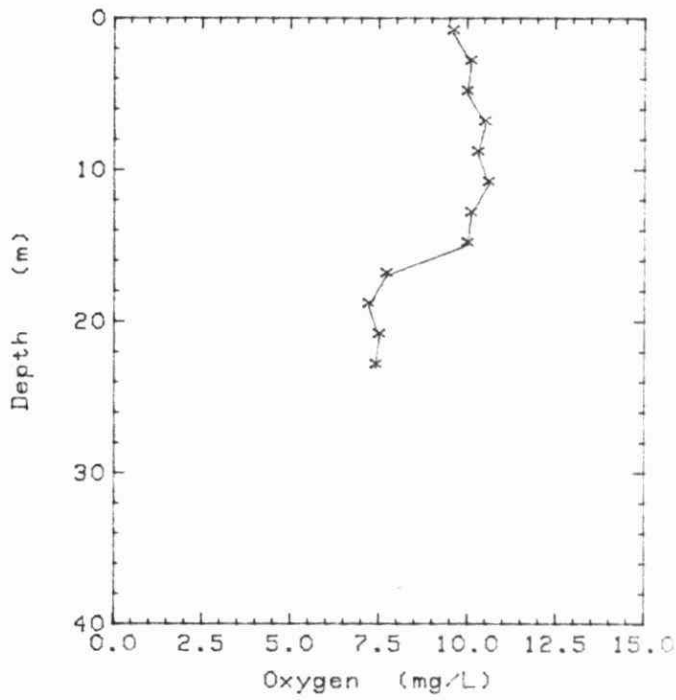


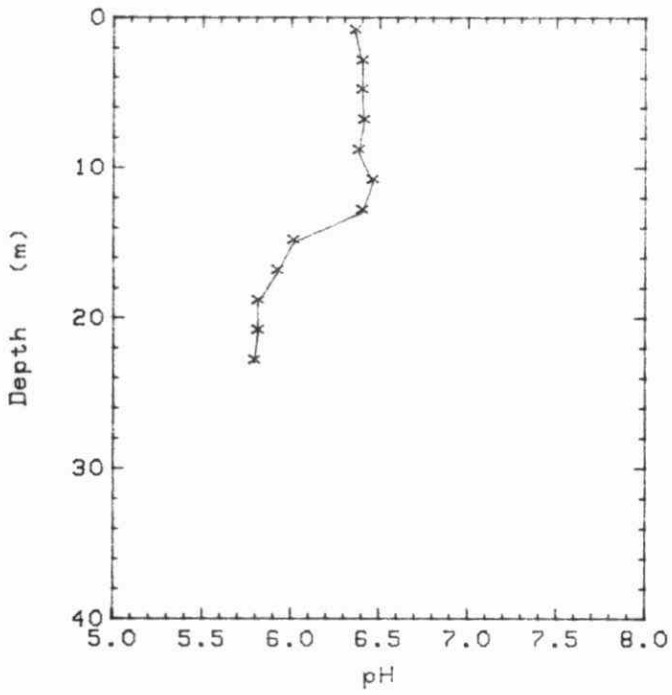


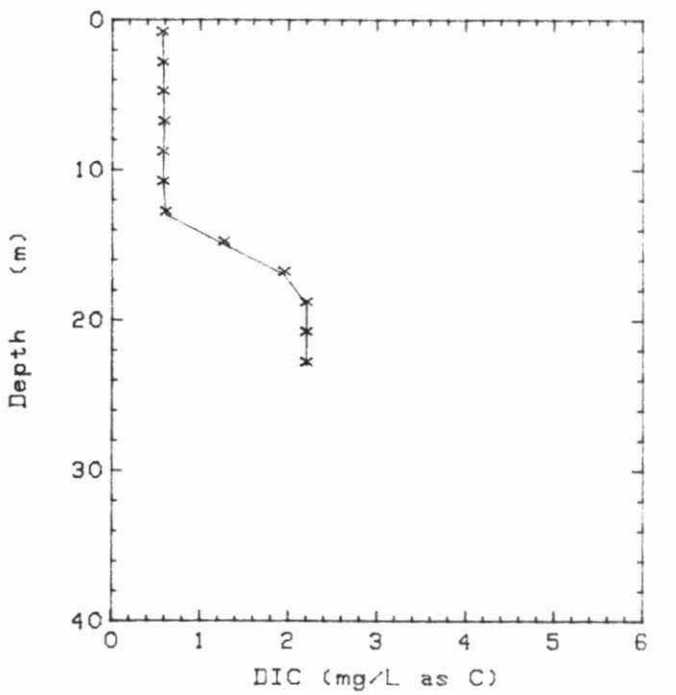

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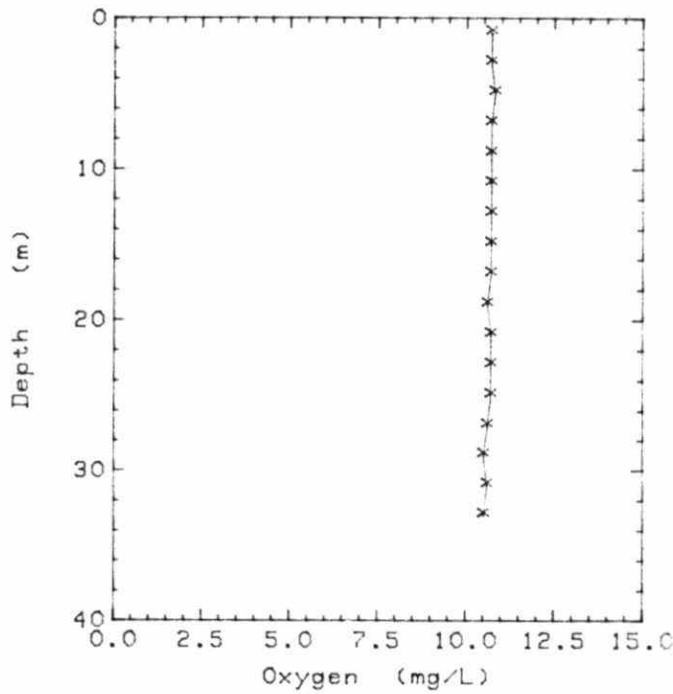


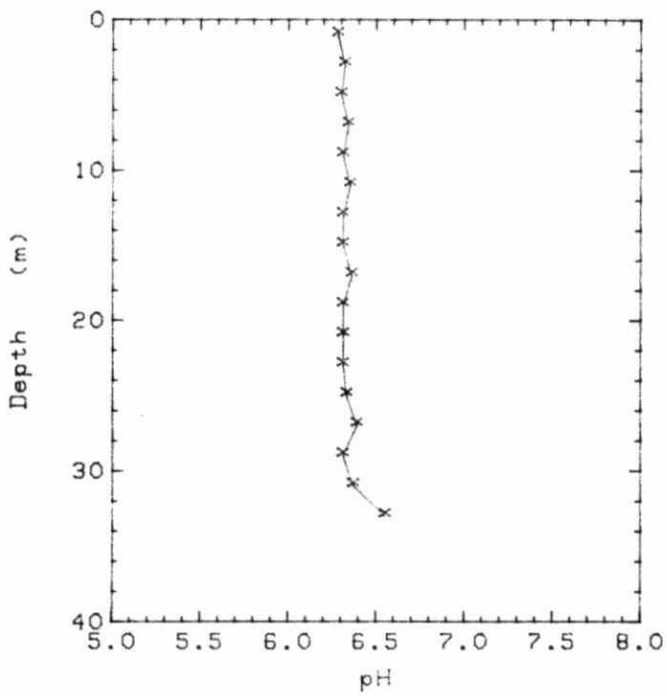

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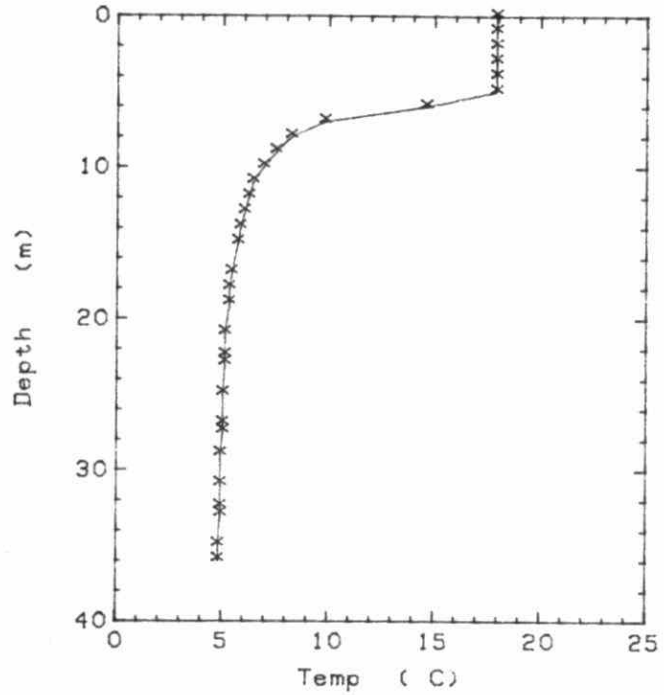


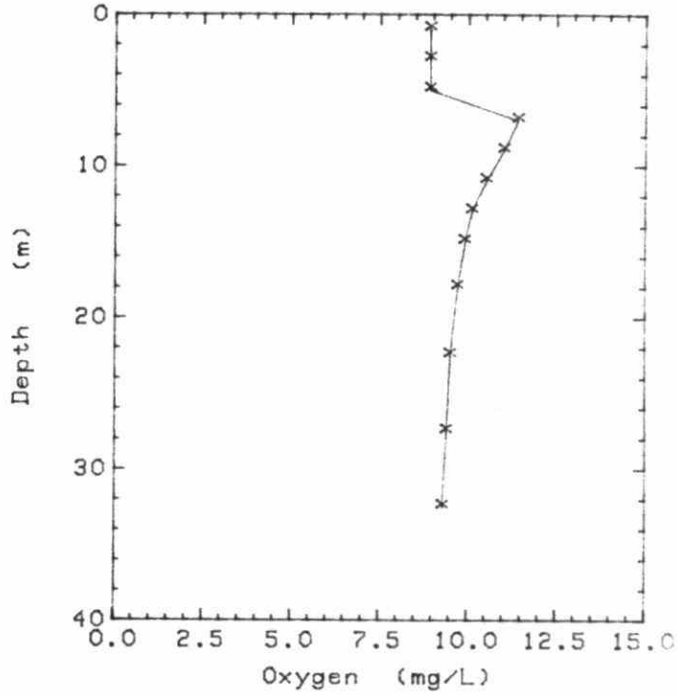


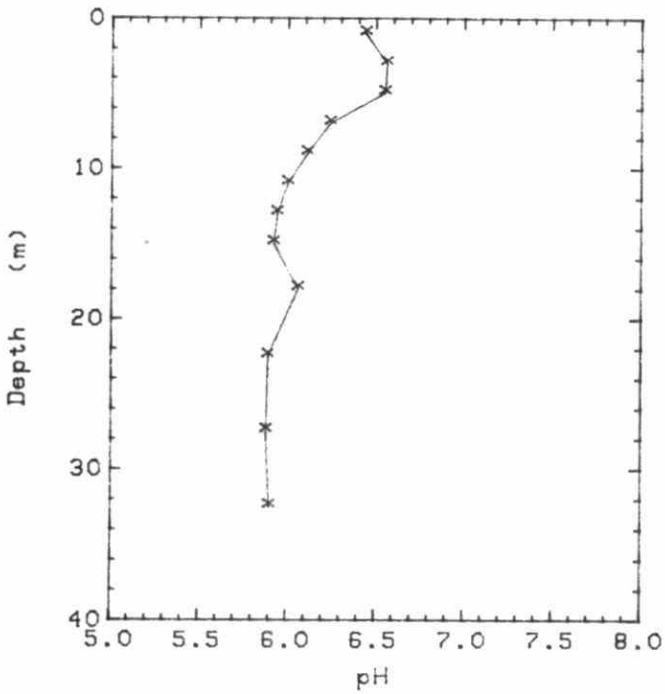

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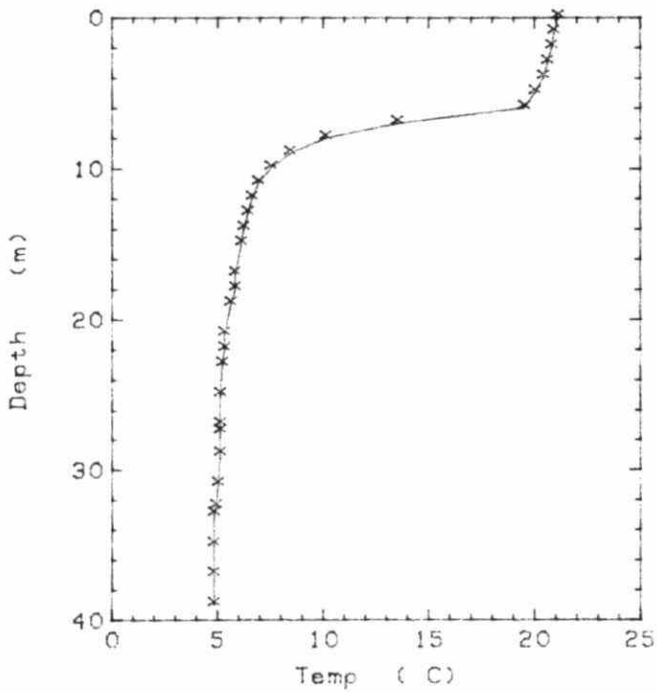


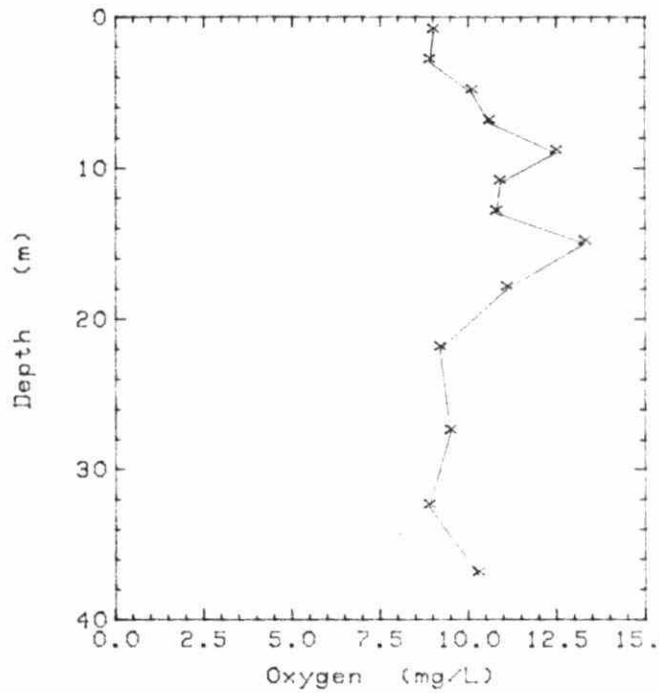


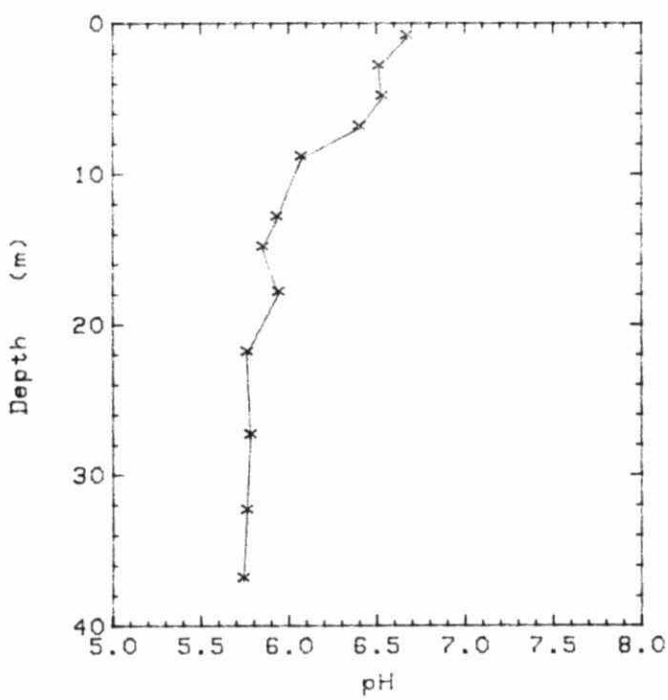

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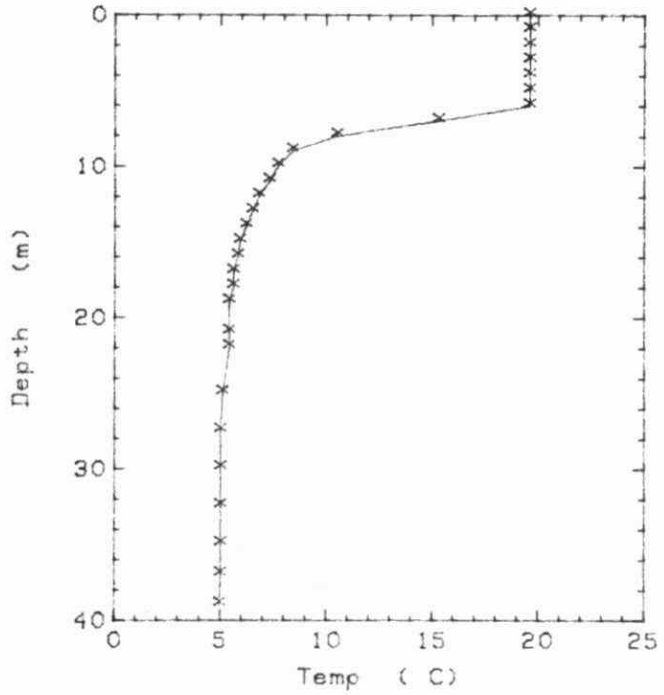


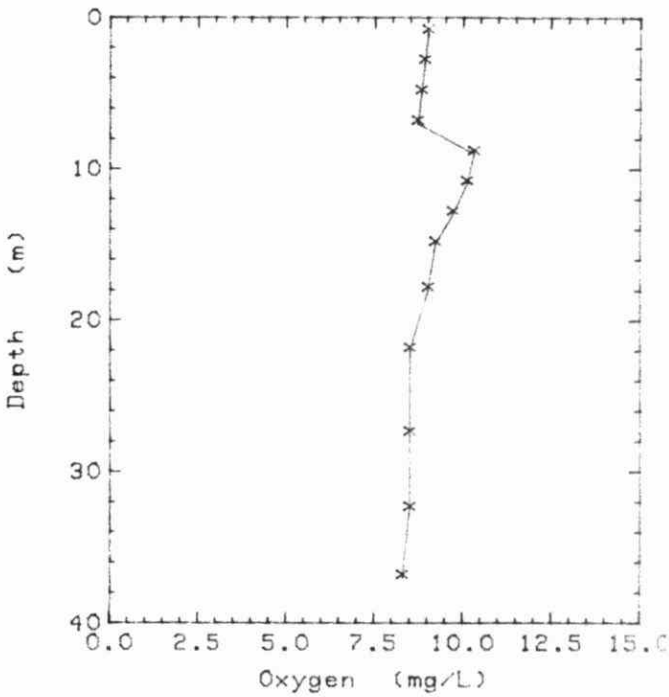


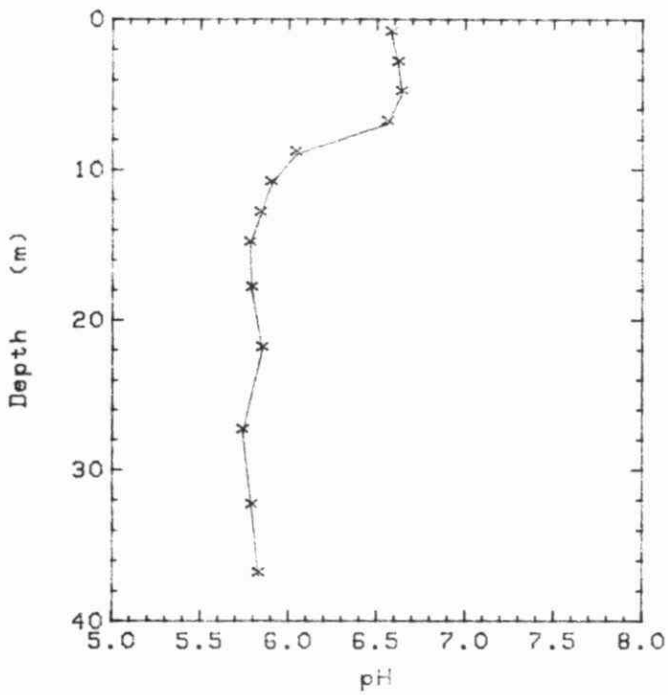

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